

Maria Concetta Maccarone

List of articles and publications (Lista dei lavori e delle pubblicazioni)

The list is ordered as (La lista è ordinata in):

- [AR] Refereed Articles (Articoli su rivista con referee)
- [AS] Papers on Books (Articoli su libri)
- [CP] Conferences Proceedings (Contributi in Atti dei Congressi)
- [ED] Editorial Work (Curatele)

[AR] Refereed Articles (Articoli su rivista con referee)

- [AR-106] D. MOLLIKA, O. CATALANO, M. CAPALBI, G. CONTINO, P. CONCONI, G. CUSUMANO, F. D'ANCA, M. DEL SANTO, C. GARGANO, V. LA PAROLA, G. LA ROSA, **M.C. MACCARONE**, T. MINEO, G. PARESCHI, G. SOTTILE (2023), "MUCH: A compact imaging Čerenkov telescope for volcano muography", Nuclear Inst. and Methods in Physics Res., A 1056 (2023) 168572, DOI: 10.1016/j.nima.2023.168572
- [AR-105] S.SCUDERI, **THE ASTRI PROJECT** (2023), "The ASTRI Mini-Array", Nuclear Inst. and Methods in Physics Research, A 1055 (2023) 168439, DOI: 10.1016/j.nima.2023.168439
- [AR-104] S.VERCELLONE, C.BIGONGIARI, A.BURTOVOI, M.CARDILLO, O.CATALANO, A.FRANCESCHINI, S.LOMBARDI, L.NAVA, F.PINTORE, A.STAMERRA, F.TAVECCHIO, L.ZAMPIERI, R.ALVES BATISTA, E.AMATO, L.A.ANTONELLIB, C.ARCARO, J.BECERRA GONZÁLEZ, G.BONNOLI, M.BÖTTCHER, G.BRUNETTI, A.A.COMPAGNINO, S.CRESTAN, A.D'Ai, M.FIORI, G.GALANTI, A.GIULIANI, E.M. DE GOUVEIA DAL PINO, J.G.GREEN, A.LAMASTRA, M.LANDONI, F.LUCARELLI, G.MORLINO, B.OLMI, E.PERETTI, G.PIANO, G.PONTI, E.PORETTI, P.ROMANO, F.G.SATURNI, S.SCUDERI, A.TUTONE, G.UMANA, J.A.ACOSTA-PULIDO, P.BARAI, A.BONANNO, G.BONANNO, P.BRUNO, A.BULGARELLI, V.CONFORTI, A.COSTA, G.CUSUMANO, M.DEL SANTO, M.V.DEL VALLE, R.DELLA CECA, D.A.FALCETA-GONCALVES, V.FIORETTI, S.GERMANI, R.J.GARCÍA-LÓPEZ, A.GHEDINA, F.GIANOTTI, V.GIORDANO, M.KRETER, F.INCARDONA, S.IOVENITTI, A.LABARBERA, N.LA PALOMBARA, V.LA PAROLA, G.LETO, F.LONGO, A.LÓPEZ-ORAMAS, **M.C.MACCARONE**, S.MEREGHETTI, R.MILLUL, G.NALETTO, A.PAGLIARO, N.PARMIGGIANI, C.RIGHI, J.C.RODRÍGUEZ-RAMÍREZ, G.ROMEO, P.SANGIORGI, R.SANTOS DE LIMA, G.TAGLIAFERRI, V.TESTA, G.TOSTI, M.VÁZQUEZ ACOSTA, N. ZYWUCKA, P.A.CARAVEO, G.PARESCHI (2022). "ASTRI Mini-Array core science at the Observatorio delTeide", Journal of High Energy

- [AR-103] S. SCUDERI, A. GIULIANI, G. PARESCHI, G. TOSTI, O. CATALANO, E. AMATO, L.A. ANTONELLI, J. BECERRA GONZÁLES, G. BELLASSAI, C. BIGONGIARI, B. BIONDO, M. BÖTTCHER, G. BONANNO, G. BONNOLI, P. BRUNO, A. BULGARELLI, R. CANESTRARI, M. CAPALB, P. CARAVEO, M. CARDILLO, V. CONFORTI, G. CONTINO, M. CORPORA, A. COSTA, G. CUSUMANO, A. D’Ai, E. DE GOUVEIA DAL PINO, R. DELLA CECA, E. ESCRIBANO RODRIGUEZ, D. FALCETA-GONCALVES, C. FERMINO, M. FIORI, V. FIORETTI, M. FIORINI, S. GALLOZZI, C. GARGANO, S. GAROZZO, S. GERMANI, A. GHEDINA, F. GIANOTTI, S. GIARRUSSO, R. GIMENES, L. V. GIORDANO, A. GRILLO, C. GRIVEL GELLY, D. IMPIOMBATO, F. INCARDONA, S. INCORVAIA, S. IOVENITTI, A. LABARBERA, N. LAPALOMBARA, V. LA PAROLA, A. LAMASTRA, L. LESSIO, G. LETO, F. LO GERFO, M. LODI, S. LOMBARDI, F. LONGO, F. LUCARELLI, **M.C. MACCARONE**, D. MARANO, E. MARTINETTI, S. MEREGHETTI, A. MICCICHÉ, R. MILLUL, T. MINEO, D. MOLLICA, G. MORLINO, A. MORSELLI, G. NALETTO, G. NICOTRA, A. PAGLIARO, N. PARMIGGIANI, G. PIANO, F. PINTORE, E. PORETTI, B. OLMI, G. RODEGHIERO, G. RODRIGUEZ FERNANDEZ, P. ROMANO, G. ROMEO, F. RUSSO, P. SANGIORGI, F.G. SATURNI, J.H. SCHWARZ, E. SCIACCA, G. SIRONI, G. SOTTILE, A. STAMERRA, G. TAGLIAFERRI, V. TESTA, G. UMANA, M. USLENGHI, S. VERCELLONE, L. ZAMPIERI, R. ZANMAR SANCHEZ (2022). “The ASTRI Mini-Array of Cherenkov telescopes at the Observatorio del Teide”, *Journal of High Energy Astrophysics* 35, DOI: 10.1016/j.jheap.2022.05.001
- [AR-102] A.A. COMPAGNINO, T. MINEO, **M.C. MACCARONE**, O. CATALANO, S. GIARRUSSO, D. IMPIOMBATO (2022). “Evaluating the night sky background directly from the signal images detected by the ASTRI telescopes”, *Experimental Astronomy* 53, DOI: 10.1007/s10686-021-09830-9
- [AR-101] D. MOLLICA, O. CATALANO, M. CAPALBI, G. CONTINO, P. CONCONI, G. CUSUMANO, F. D’ANCA, M. DEL SANTO, C. GARGANO, V. LA PAROLA, G. LA ROSA, **M. C. MACCARONE**, T. MINEO, G. PARESCHI, G. SOTTILE (2022). “MUCH: An Imaging Cherenkov Telescope for Volcano Muography”, *Journal of Advanced Instrumentation in Science*, DOI: 10.31526/jais.2022.255
- [AR-100] **M.C. MACCARONE**, G. LA ROSA, O. CATALANO, S. GIARRUSSO, A. SEGRETO, B. BIONDO, P. BRUNO, C. GARGANO, A. GRILLO, D. IMPIOMBATO, F. RUSSO, G. SOTTILE (2021). “UVscope and its application aboard the ASTRI-Horn telescope”, *Experimental Astronomy*, 31 March 2021, Open Access <https://rdu.be/cj5Ft>, DOI:10.1007/s10686-021-09728-6
- [AR-99] S. LOMBARDI, O. CATALANO, S. SCUDERI, L.A. ANTONELLI, G. PARESCHI, E. ANTOLINI, L. ARRABITO, G. BELLASSAI, K. BERNLOHR, C. BIGONGIARI, B. BIONDO, G. BONANNO, G. BONNOLI, G.M. BOETTCHER, J. BREGEON, P. BRUNO, R. CANESTRARI, M. CAPALBI, P. CARAVEO, P. CONCONI, V. CONFORTI, G. CONTINO, G. CUSUMANO, E.M. DE GOUVEIA DAL PINO, A. DISTEFANO, G. FARISATO, C. FERMINO, M. FIORINI, A. FRIGO, S. GALLOZZI, C. GARGANO, S. GAROZZO, F. GIANOTTI, S. GIARRUSSO, R. GIMENES, E. GIRO, A. GRILLO, D. IMPIOMBATO, S. INCORVAIA, N. LA PALOMBARA, V. LA PAROLA, G. LA ROSA, G. LETO, F. LUCARELLI, **M.C. MACCARONE**, D. MARANO, E. MARTINETTI, A. MICCICHÈ, R. MILLUL, T. MINEO, G. NICOTRA, G. OCCHIPINTI, I. PAGANO, M. PERRI, G. ROMEO, F. RUSSO, F. RUSSO, B. SACCO, P. SANGIORGI, F.G. SATURNI, A. SEGRETO, G. SIRONI, G. SOTTILE, A. STAMERRA, L. STRINGHETTI, G. TAGLIAFERRI, M. TAVANI, V. TESTA, M.C. TIMPANARO, G. TOSO, G. TOSTI, M. TRIFOGLIO, G. UMANA, S. VERCELLONE, R. ZANMAR SANCHEZ, C. ARCARO, A. BULGARELLI, M. CARDILLO, E. CASONE, A. COSTA, A. D’Ai, F. D’AMMANDO, M. DEL SANTO, V. FIORETTI, A. LAMASTRA, S. MEREGHETTI, F. PINTORE, G. RODEGHIERO, P. ROMANO, J. SCHWARZ, E. SCIACCA, F.R. VITELLO, A. WOLTER (2020). “First detection of the Crab Nebula at TeV energies with a Cherenkov telescope in dual-mirror Schwarzschild-Couder configuration: the ASTRI-Horn telescope”, *Astronomy & Astrophysics*, Vol. 634, id.A22, DOI:10.1052/0004-6361/201936791.
- [AR-98] M. GAUG, S. FEAGAN, A.M.W. MITCHELL, **M.C. MACCARONE**, T. MINEO, A. OKUMURA, (2019). “Using the muon rings for the calibration of the Cherenkov Telescope Array: a systematic review of the method and its potential accuracy”, *The Astrophysical Journal Supplement Series*, 243:11, DOI: 10.3847/1538-4365/ab2123 , arXiv:1907.04375,

<https://iopscience.iop.org/article/10.3847/1538-4365/ab2123>,

- [AR-97] **THE JEM-EUSO COLLABORATION**, (2019). “Ultra-violet imaging of the night-time earth by EUSO-Balloon towards space-based ultra-high energy cosmic ray observations”, *Astroparticle Physics* 111 (2019) 54-71. DOI: 10.1016/j.astropartphys.2018.10.008.
- [AR-96] **THE CTA CONSORTIUM**, (2019). “Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout”, *Astroparticle Physics* 111 (2019) 35-53, arXiv:1904.1426, DOI: 10.1016/j.astropartphys.2019.04.001.
- [AR-95] **THE JEM-EUSO COLLABORATION**, (2018). “EUSO-TA –First results from a ground-based EUSO telescope”, *Astroparticle Physics* 102 (2018) 98-111. DOI: 10.1016/astropartphys.2018.05.007.
- [AR-94] **THE JEM-EUSO COLLABORATION**, (2018). “First observations of speed of light tracks by a fluorescence detector looking down on the atmosphere”, *Journal of Instrumentation* (2018), JINST_13_P05023. DOI: 10.1088/1748-0221/13/05/P05023.
- [AR-93] **THE JEM-EUSO COLLABORATION**, (2017). “Cosmic ray oriented performance studies for the JEM-EUSO first level trigger”, *NIM-A* 866 (2017) 150-163. DOI:10.1016/j.nima.2017.05.043. Available online 12 June 2017.
- [AR-92] **THE JEM-EUSO COLLABORATION**, (2017). “Meteor studies in the framework of the JEM-EUSO program”, *Planetary and Space Science* 143 (2017) 245-255. DOI:10.1016/j.pss.2016.12.001. Available online 18 december June 2016.
- [AR-91] **THE CTA CONSORTIUM**, (2017). “Science with the Cherenkov Telescope Array”, World Scientific Publ., ISBN: 978-981-3270-08-4, November 2018. (arXiv: 1709.07997).
- [AR-90] F. ACERO, R. ALOISIO, J. AMANS, E. AMATO, L.A. ANTONELLI, C. ARAMO, T. ARMSTRONG, F. ARQUEROS, K. ASANO, M. ASHLEY, M. BACKES, C. BALAZS, A. BALZER, A. BAMBA, M. BARKOV, J.A. BARRIO, W. BENBOW, K. BERNLOHR, V. BESHLEY, C. BIGONGIARI, A. BILAND, A. BILINSKY, E. BISSALDI, J. BITEAU, O. BLANCH, P. BLASI, J. BLAZEK, C. BOISSON, G. BONANNO, A. BONARDI, C. BONAVOLONTA, G. BONNOLI, C. BRAIDING, S. BRAU-NOGUE, J. BREGEON, A.M. BROWN, V. BUGAEV, A. BULGARELLI, T. BULIK, M. BURTON, A. BURTOVOI, G. BUSETTO, M. BOTTCHEER, R. CAMERON, M. CAPALBI, A. CAPRONI, P. CARAVEO, R. CAROSI, E. CASCONI, M. CERRUTI, S. CHATY, A. CHEN, X. CHEN, M. CHERNYAKOVA, M. CHIKAWA, J. CHUDOBA, J. COHEN-TANUGI, S. COLAFRANCESCO, V. CONFORTI, J.L. CONTRERAS, A. COSTA, G. COTTER, S. COVINO, G. COVONE, P. CUMANI, G. CUSUMANO, F. D'AMMANDO, D. D'URSO, M. DANIEL, F. DAZZI, A. DE ANGELIS, G. DE CESARE, A. DE FRANCO, F. DE FRONDAT, E.M. DE GOUVEIA DAL PINO, C. DE LISIO, R. DE LOS REYES LOPEZ, B. DE LOTTO, M. DE NAUROIS, F. DE PALMA, M. DEL SANTO, C. DELGADO, D. DELLA VOLPE, T. DI GIROLAMO, C. DI GIULIO, F. DI PIERRO, L. DI VENERE, M. DORO, J. DOURNAUX, D. DUMAS, V. DWARKADAS, C. DIAZ, J. EBR, K. EGBERTS, S. EINECKE, D. ELSASSER, S. ESCHBACH, D. FALCETA-GONCALVES, G. FASOLA, E. FEDOROVA, A. FERNANDEZ-BARRAL, G. FERRAND, M. FESQUET, E. FIANDRINI, A. FIASSON, M.D. FILIPOVIC, V. FIORETTI, L. FONT, G. FONTAINE, F.J. FRANCO, L. FREIXAS COROMINA, Y. FUJITA, Y. FUKUI, S. FUNK, A. FORSTER, A. GADOLA, R. GARCIA LOPEZ, M. GARCZARCYK, N. GIGLIETTO, F. GIORDANO, A. GIULIANI, J. GLICENSTEIN, R. GNATYK, P. GOLDONI, T. GRABARCZYK, R. GRACIANI, J. GRAHAM, P. GRANDI, J. GRANOT, A.J. GREEN, S. GRIFFITHS, S. GUNJI, H. HAKOBYAN, S. HARA, T. HASSAN, M. HAYASHIDA, M. HELLER, J.C. HELO, J. HINTON, B. HNATYK, J. HUET, M. HUETTEN, T.B. HUMENSKY, M. HUSSEIN, J. HGRANDEL, Y. IKENO, T. INADA, Y. INOME, S. INOUE, T. INOUE, Y. INOUE, K. IOKA, M. IORI, J. JACQUEMIER, P. JANECEK, D. JANKOWSKY, I. JUNG, P. KAARET, H. KATAGIRI, S. KIMESWENGER, S. KIMURA, J. KNODLSEDER, B. KOCH, J. KOCOT, K. KOHRI, N. KOMIN, Y. KONNO, K. KOSACK, S. KOYAMA, M. KRAUS, H. KUBO, G. KUKEC MEZEK, J. KUSHIDA, N. LA PALOMBARA, K. LALIK, G. LAMANNA, H. LANDT, J. LAPINGTON, P. LAPORTE, S. LEE, J. LEES, J. LEFAUCHEUR, J.-P. LENAIN, G. LETO, E. LINDFORS, T. LOHSE, S. LOMBARDI, F. LONGO, M. LOPEZ, F. LUCARELLI, P.L. LUQUE-ESCAMILLA, R. LOPEZ-COTO, **M.C. MACCARONE**, G. MAIER, G. MALAGUTI, D. MANDAT, G.

MANEVA, S. MANGANO, A. MARCOWITH, J. MARTI, M. MARTINEZ, G. MARTINEZ, S. MASUDA, G. MAURIN, N. MAXTED, C. MELIOLI, T. MINEO, N. MIRABAL, T. MIZUNO, R. MODERSKI, M. MOHAMMED, T. MONTARULI, A. MORALEJO, K. MORI, G. MORLINO, A. MORSELLI, E. MOULIN, R. MUKHERJEE, C. MUNDELL, H. MURAISHI, K. MURASE, S. NAGATAKI, T. NAGAYOSHI, T. NAITO, D. NAKAJIMA, T. NAKAMORI, R. NEMMEN, J. NIEMIEC, D. NIETO, M. NIEVAS-ROSILLO, M. NIKO LAJUK, K. NISHIJIMA, K. NODA, L. NOGUES, D. NOSEK, B. NOVOSYADLYJ, S. NOZAKI, Y. OHIRA, M. OHISHI, S. OHM, A. OKUMURA, R.A. ONG, R. ORITO, A. ORLAT, M. OSTROWSKI, I. OYA, M. PADOVANI, J. PALACIO, M. PALATKA, J.M. PAREDES, S. PAVY, A. PE'ER, M. PERSIC, P. PETRUCCI, O. PETRUK, A. PISARSKI, M. POHL, A. PORCELLI, E. PRANDINI, J. PRAST, G. PRINCIPE, M. PROUZA, E. PUESCHEL, G. PUHLHOFER, A. QUIRRENBACH, M. RAMEEZ, O. REIMER, M. RENAUD, M. RIBO, J. RICO, V. RIZI, J. RODRIGUEZ, G. RODRIGUEZ FERNANDEZ, J.J. RODRIGUEZ VAZQUEZ, P. ROMANO, G. ROMEO, J. ROSADO, J. ROUSSELLE, G. ROWELL, B. RUDAK, I. SADEH, S. SAFI-HARB, T. SAITO, N. SAKAKI, D. SANCHEZ, P. SANGIORGI, H. SANO, M. SANTANDER, S. SARKAR, M. SAWADA, E.J. SCHIOPPA, H. SCHOORLEMMER, P. SCHOVANEK, F. SCHUSSLER, O. SERGIJENKO, M. SERVILLAT, A. SHALCHI, R.C. SHELLARD, H. SIEJKOWSKI, A. SILLANPAA, D. SIMONE, V. SLIUSAR, H. SOL, S. STANIC, R. STARLING, STAWARZ, S. STEFANIK, M. STEPHAN, T. STOLARCZYK, M. SZANECKI, T. SZEPIENIEC, G. TAGLIAFERRI, H. TAJIMA, M. TAKAHASHI, J. TAKEDA M. TANAKA, S. TANAKA, L.A. TEJEDOR, I. TELEZHINSKY, P. TEMNIKOV, Y. TERADA, D. TESCARO, M. TESHIMA, V. TESTA, S. THOUDAM, F. TOKANAI, D.F. TORRES, E. TORRESI, G. TOSTI, C. TOWNSLEY, P. TRAVNICEK, C. TRICHARD, M. TRIFOGLIO, S. TSUJIMOTO, V. VAGELLI, P. VALLANIA, L. VALORE, W. VAN DRIEL, C. VAN ELDIK, J. VANDENBROUCKE, V. VASSILIEV, M. VECCHI, S. VERCELLONE, S. VERGANI, C. VIGORITO, S. VOROBIOV, M. VRASTIL, M.L. VAZQUEZ ACOSTA, S.J. WAGNER, R. WAGNER, S.P. WAKELY, R. WALTER, J.E. WARD, J.J. WATSON, A. WEINSTEIN, M. WHITE, R. WHITE, A. WIERZCHOLSKA, P. WILCOX, D.A. WILLIAMS, R. WISCHNEWSKI, P. WOJCIK, T. YAMAMOTO, H. YAMAMOTO, R. YAMAZAKI, S. YANAGITA, L. YANG, T. YOSHIDA, M. YOSHIDA, S. YOSHIKE, T. YOSHIKOSHI, M. ZACHARIAS, L. ZAMPIERI, R. ZANIN, M. ZAVRTANIK, D. ZAVRTANIK, A. ZDZIARSKI, A. ZECH, H. ZEHLIN, V. ZHDANOV, A. ZIEGLER, J. ZORN, (2017). "Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7-3946", *The Astrophysical Journal*, Vol.840:74, 10 May 2017. (arXiv: 1704.04136). DOI:10.3487/1538-4357/aa6d67.

- [AR-89] O. CATALANO, M. DEL SANTO, T. MINEO, G. CUSUMANO, **M.C. MACCARONE**, G. PARESCHI (2016). "Volcanoes muon imaging using Cherenkov telescopes", *NIM-A, Nuclear Instrum. & Methods - Section A*, vol. 807, pp.5-12, 21 January 2016. (arXiv: 1511.01761). DOI:10.1016/j.nima.2015.10.065.
- [AR-88] **THE JEM-EUSO COLLABORATION** (2015). "The JEM-EUSO mission: An Introduction", *Experimental Astronomy*, Vol.40, Issue 1, pp.3-17, November 2015, DOI: 10.1007/s10686-015-9482-x.
- [AR-87] **THE JEM-EUSO COLLABORATION** (2015). "The JEM-EUSO Instrument", *Experimental Astronomy*, Vol.40, Issue 1, pp.19-44, November 2015, DOI: 10.1007/s10686-014-9418-x.
- [AR-86] **THE JEM-EUSO COLLABORATION** (2015). "JEM-EUSO observational technique and exposure", *Experimental Astronomy*, Vol.40, Issue 1, pp.117-134, November 2015, DOI: 10.1007/s10686-014-9376-3.
- [AR-85] **THE JEM-EUSO COLLABORATION** (2015). "Performance of JEM-EUSO: angular reconstruction", *Experimental Astronomy*, Vol.40, Issue 1, pp.153-177, November 2015, DOI: 10.1007/s10686-013-9371-0. (*plus Erratum, Experimental Astronomy, Vol.40, Issue 1, pp.179-181, DOI: 10.1007/s10686-014-9420-3*)
- [AR-84] B.S. ACHARYA, C. ARAMO, A. BABIC, J.A. BARRIO, A. BAUSHEV, J. BECKER TJUS, D. BERGE, M. BOHACOVA, A. BONARDI, A. BROWN, V. BUGAEV, T. BULIK, M. BURTON, G. BUSETTO, P. CARAVEO, R. CAROSI, J. CARR, P. CHADWICK, J. CHUDOBA, V. CONFORTI, V. CONNAUGHTON, J.L. CONTRERAS, G. COTTER, F. DAZZI, A. DE FRANCO, I. DE LA CALLE, R. DE LOS REYES LOPEZ, B. DE LOTTO, F. DE PALMA, T. DI GIROLAMO, C. DI GIULIO,

F. DI PIERRO, J.-L. DOURNAUX, V. DWARKADAS, J. EBR, K. EGBERTS, M. FESQUET, H. FLEISCHHACK, L. FONT, G. FONTAINE, A. FORSTER, M. FUESSLING, B. GARCIA, R. GARCIA LOPEZ, M. GARCZARCYK, F. GARGANO, D. GARRIDO, M. GAUG, N. GIGLIETTO, F. GIORDANO, A. GIULIANI, N. GODINOVIC, M.M. GONZALEZ, T. GRABARCZYK, T. HASSAN, J. HORANDEL, M. HRABOVSKY, D. HRUPEC, T.B. HUMENSKY, J. HUOVELIN, M. JAMROZY, P. JANECEK, P.E. KAARET, U. KATZ, S. KAUFMANN, B. KHELIFI, W. KLUZNIAK, J. KOCOT, N. KOMIN, H. KUBO, J. KUSHIDA, G. LAMANNA, W.H. LEE, J.-P. LENAIN, T. LOHSE, S. LOMBARDI, R. LOPEZ-COTO, A. LOPEZ-ORAMAS, F. LUCARELLI, **M.C. MACCARONE**, G. MAIER, P. MAJUMDAR, G. MALAGUTI, D. MANDAT, M.N. MAZZIOTTA, K. MEAGHER, N. MIRABAL, A. MORSELLI, E. MOULIN, J. NIEMIEC, M. NIEVAS, K. NISHIJIMA, D. NOSEK, F. NUNIO, M. OHISHI, S. OHM, R.A. ONG, R. ORITO, N. OTTE, M. PALATKA, G. PARESCHI, M. PECH, M. PERSIC, M. POHL, M. PROUZA, A. QUIRRENBACH, S. RAINO, G. RODRIGUEZ FERNANDEZ, P. ROMANO, A.C. ROVERO, B. RUDAK, P. SCHOVANEK, M. SHAYDUK, H. SIEJIKOWSKI, A. SILLANPAA, S. STEFANIK, T. STOLARCZIK, M. SZANECKI, T. SZEPIENIEC, L.A. TEJEDOR, I. TELEHZINSKY, M. TESHIMA, L. TIBALDO, O. TIBOLLA, G. TOVMASSIAN, P. TRAVNICEK, M. TRZECIAK, P. VALLANIA, C. VAN ELDIK, S. VERCELLONE, C. VIGORITO, S.J. WAGNER, S.P. WAKELY, A. WEINSTEIN, A. WIERZCHOLSKA, A. WILHELM, P. WOJCIK, T. YOSHIKOSHI, (2014). "The Cherenkov Telescope Array potential for the study of young supernova remnants", *AstroParticle Physics*, 62, 152, March 2015, available on-line 28 September 2014. DOI: 10.1016/j.astropartphys.2014.08.005. EID: 2-s2.0-84908663562.

[AR-83] **THE PIERRE AUGER COLLABORATION** (2014). "Reconstruction of inclined air showers detected with the Pierre Auger Observatory", *JCAP*, 08 019, doi:10.1088/1475-7516/2014/08/019 (arXiv: 1407.3214). DOI: 10.1088/1475-7516/2014/08/019 . EID: 2-s2.0-84918844004.

[AR-82] **THE PIERRE AUGER COLLABORATION** (2014). "Searches for large-scale anisotropy in the arrival directions of cosmic rays detected above energy of 10^{19} eV at the Pierre Auger Observatory and the Telescope Array", *The Astrophysical Journal*, 794, 172, doi:10.1088/0004-637X/794/2/172. DOI: 10.1088/0004-637X/794/2/172.

[AR-81] **THE PIERRE AUGER COLLABORATION** (2014). "Probing the radio emission from cosmic-ray-induced air showers by polarization measurements", *Phys. Rev. D*, 89, 052002. DOI: 10.1103/PhysRevD.89.052002. EID: 2-s2.0-84897078455.

[AR-80] **THE PIERRE AUGER COLLABORATION** (2014). "A search for point sources of EeV photons", *The Astrophysical Journal*, 789, 160. DOI:10.1088/0004-637X/789/2/160 .EID: 2-s2.0-84903289340

[AR-79] **THE PIERRE AUGER COLLABORATION** (2014). "Muons in air showers at the Pierre Auger Observatory: measurement of atmospheric production depth", *Physical Review D*, 90, 012012. DOI: 10.1103/PhysRevD.90.012012. EID: 2-s2.0-84905054452. (plus Erratum, *Physical Review D*, 92,019903. DOI: 10.1103/PhysRevD.92.019903).

[AR-78] **THE PIERRE AUGER COLLABORATION** (2014). "Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America", *Atmospheric Research*, 149, 120-135. DOI: 10.1016/j.atmosres.2014.05.021. EID: 2-s2.0-84903648409.

[AR-77] **THE PIERRE AUGER COLLABORATION** (2014). "A Targeted Search for Point Sources of EeV Neutrons", *Astrophysical Journal Letters*, 789, L34. DOI: 10.1088/2041-8205/789/2/L34. EID: 2-s2.0-84903996766

[AR-76] **THE PIERRE AUGER COLLABORATION** (2013). "Identifying Clouds over the Pierre Auger Observatory using Infrared Satellite Data", *AstroParticle Physics*, 50-52, 92-101. DOI: 10.1016/j.astropartphys.2013.09.004. EID: 2-s2.0-84887945060.

[AR-75] **THE PIERRE AUGER COLLABORATION** (2013). "Techniques for Measuring Aerosol Attenuation using the Central Laser Facility at the Pierre Auger Observatory", *JINST* 8 P04009 (arXiv:1303.5576).

DOI: 10.1088/1748-0221/8/04/P04009

- [AR-74] **THE PIERRE AUGER COLLABORATION** (2013). "Bounds of the density of sources of ultra-high energy cosmic rays from the Pierre Auger Observatory", *JCAP*, 05 009 (arXiv: 1305.1576). DOI: 10.1088/1475-7516/2013/05/009. EID: 2-s2.0-84877934373
- [AR-73] SOTTILE G., F. RUSSO, G. AGNETTA, M. BELLUSO, S. BILLOTTA, B. BIONDO, G. BONANNO, O. CATALANO, S. GIARRUSSO, A. GRILLO, D. IMPIOMBATO, G. LA ROSA, **MACCARONE M.C.**, A. MANGANO, D. MARANO, T. MINEO, A. SEGRETO, E. STRAZZERI, M.C. TIMPANARO (2013). "UVSiPM: a light detector instrument based on a SiPM sensor working in single photon counting ". *Nuclear Physics B Proc. Suppl.*, Volume 239, p. 258-261 (arXiv: 1305.2699). DOI: 10.1016/j.nuclphysbps.2013.05.040. EID: 2-s2.0-84879868715.
- [AR-72] **THE JEM-EUSO COLLABORATION** (2013). " An evaluation of exposure in nadir observation of the JEM-EUSO mission", *Astroparticle Physics*, 44, 76-90. DOI: 10.1016/j.astropartphys.2013.01. EID: 2-s2.0-84874883858
- [AR-71] **THE CTA CONSORTIUM** (2013). " Introducing the CTA concept", *Astroparticle Physics*, vol.43, pp.3-18 . DOI: 10.1016/j.astropartphys.2013.01.007. EID: 2-s2.0-84886086069.
- [AR-70] **THE PIERRE AUGER COLLABORATION** (2013). "Interpretation of the Depths of Maximum of Extensive Air Showers Measured by the Pierre Auger Observatory", *JCAP*, 02,026. DOI: 10.1088/1475-7516/2013/02/026. EID: 2-s2.0-84874723778.
- [AR-69] **THE PIERRE AUGER COLLABORATION** (2013). "Ultra High-Energy Neutrinos at the Pierre Auger Observatory", *Advances in High-Energy Physics*, Vol 2013, Article ID 708680. DOI: 10.1155/2013/708680. EID: 2-s2.0-84876571954.
- [AR-68] **THE PIERRE AUGER COLLABORATION** (2013). "Constraints on the origin of cosmic rays above 10^{18} eV from large scale anisotropy searches in data of the Pierre Auger Observatory", *The Astrophysical Journal Letters*, 762:L13 (8pp), DOI:10.1088/2041-8205/762/1/L13. EID: 2-s2.0-84873345403.
- [AR-67] **THE PIERRE AUGER COLLABORATION** (2012). "Large scale distribution of arrival directions of cosmic rays detected above 10^{18} eV at the Pierre Auger observatory", *ApJ Supplement*, 203:34 (20pp), DOI: 10.1088/0067-0049/203/2/34. DOI: 10.1088/0067-0049/203/2/34. EID: 2-s2.0-84871196508.
- [AR-66] **THE PIERRE AUGER COLLABORATION** (2012). "A Search for Point Sources of EeV Neutrons", *ApJ*, 760:148 (11pp), DOI:10.1088/0004-637X/760/2/148. EID: 2-s2.0-84870368890.
- [AR-65] **THE PIERRE AUGER COLLABORATION** (2012). "Results of a self-triggered prototype system at the Pierre Auger Observatory for radio-detection of air showers induced by cosmic rays", *JINST* 7, P11023, DOI:10.1088/1748-0221/7/11/P11023.
- [AR-64] **THE PIERRE AUGER COLLABORATION** (2012). "Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory", *JINST* 7, P10011, DOI: 10.1088/1748-0221/7/10/P10011. EID: 2-s2.0-84868279001.
- [AR-63] **THE PIERRE AUGER COLLABORATION** (2012). "The Rapid Atmospheric Monitoring System of the Pierre Auger Observatory", *JINST* 7, P09001, DOI: 10.1088/1748-0221/7/09/P09001.
- [AR-62] **THE PIERRE AUGER COLLABORATION** (2012). " Search for Point-Like Sources of Ultra-High Energy Neutrinos at the Pierre Auger Observatory and Improved Limit on the Diffuse Flux of Tau Neutrinos", *The Astrophysical Journal Letters*, 755:L4 (7pp), DOI: 10.1088/2041-

8205/755/1/L4.

- [AR-61] **THE PIERRE AUGER COLLABORATION** (2012). "Description of Atmospheric Conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS)", *Astroparticle Physics*, vol.35, pp.591-607. DOI: 10.1016/j.astropartphys.2011.12.002. EID: 2-s2.0-84862801144.
- [AR-60] **THE PIERRE AUGER COLLABORATION** (2012). "Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory ", *Astroparticle Physics*, vol.35, pp.354-361. DOI: 10.1016/j.astropartphys.2011.10.004. EID: 2-s2.0-83455181785.
- [AR-59] G. TAGLIAFERRI, A. HORNSTRUP, J. HUOVELIN, V. REGLERO, S. ROMAINE, A. ROZANSKA, A. SANTANGELO, G. STEWART, **INSTRUMENT & GROUND SEGMENT TEAM, SCIENCE TEAM** (2012). "The NHXM Observatory", *Exp Astronomy*, vol.34, Issue 2, pp.463-488 (Published online 22 July 2011). DOI 10.1007/s10686-011-9235-4
- [AR-58] **THE CTA CONSORTIUM** (2011). "Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy", *Exp Astron*, vol.32, pp.193–316, DOI 10.1007/s10686-011-9247-0. EID: 2-s2.0-82655171967.
- [AR-57] **THE PIERRE AUGER COLLABORATION** (2011). " The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory", *JCAP*, 11, 022. DOI:10.1088/1475-7516/2011/11/022. EID:2-s2.0-82955251175.
- [AR-56] **THE PIERRE AUGER COLLABORATION** (2011). " The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Rays Showers detected by the Pierre Auger Observatory ", *Astroparticle Physics*, vol.35, pp.266-276. DOI: 10.1016/j.astropartphys.2011.08.001. EID: 2-s2.0-80054695073 (plus Erratum, *Astroparticle Physics*, vol. 35, 2012, pp. 681-684. DOI: 10.1016/j.astropartphys.2012.02.005. EID: 2-s2.0-84862783472).
- [AR-55] **THE PIERRE AUGER COLLABORATION** (2011). " Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory ", *Journal of Cosmology and Astroparticle Physics (JCAP)*, 6 (2011) 022. DOI:10.1088/1475-7516/2011/06/022. EID: 2-s2.0-79960059594.
- [AR-54] **MACCARONE M.C.**, O. CATALANO, S. GIARRUSSO, G. LA ROSA, A. SEGRETO, G. AGNETTA, B. BIONDO, A. MANGANO, F. RUSSO, S. BILLOTTA (2011). " Performance and applications of the UVscope instrument", *NIM-A, Nuclear Instrum. & Methods - Section A*, vol. 659, Issue 1, pp. 569-578. DOI:10.1016/j.nima.2011.08.004. EID: 2-s2.0-84860394815.
- [AR-53] **THE PIERRE AUGER COLLABORATION** (2011). "The Pierre Auger Observatory scaler mode for the study of solar activity modulation of galactic cosmic rays ", *Journal of Instrumentation (JINST)* 6, P01003, 12 Jan. 2011. DOI: 10.1088/1748-0221/6/01/P01003.
- [AR-52] **THE PIERRE AUGER COLLABORATION** (2011). "The exposure of the hybrid detector of the Pierre Auger Observatory ", *Astroparticle Physics*, vol.34, pp. 368-381. EID: 2-s2.0-78650521415. DOI: 10.1016/j.astropartphys.2010.10.001.
- [AR-51] **THE PIERRE AUGER COLLABORATION** (2010). "Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter", *Astroparticle Physics* vol. 34, pp. 314-326. DOI: 10.1016/j.astropartphys.2010.08.010. EID: 2-s2.0-77958095453.
- [AR-50] **THE PIERRE AUGER COLLABORATION** (2010). "The Fluorescence Detector of the Pierre Auger Observatory", *NIM-A, Nuclear Instrum. & Methods - Section A*, vol. 620, Issue 2-3, pp. 227-251. DOI: 10.1016/j.nima.2010.04.023. EID: 2-s2.0-77955667750.

- [AR-49] **J. BLUEMER AND THE PIERRE AUGER COLLABORATION** (2010). "The Northern Site of the Pierre Auger Observatory ", *New Journal of Physics*, vol. 12, 035001. DOI: 10.1088/1367-2630/12/3/035001
- [AR-48] **THE PIERRE AUGER COLLABORATION** (2010). "A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory", *Astroparticle Physics*, vol. 33, n.2, pp. 108-129. EID: 2-s2.0-76549095420. DOI: 10.1016/j.astropartphys.2009.12.005.
- [AR-47] **THE PIERRE AUGER COLLABORATION** (2010). "Measurement of the energy spectrum of cosmic rays above 10^{18} eV using the Pierre Auger Observatory ", *Physics Letters B*, vol. 685, Issues 4-5, pp. 239-246. DOI: 10.1016/j.physletb.2010.02.013. EID: 2-s2.0-77049102580.
- [AR-46] **THE PIERRE AUGER COLLABORATION** (2010). "Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV ", *Physical Review Letters*, PRL 104, 091101(1-7). DOI: 10.1103/PhysRevLett.104.091101. EID: 2-s2.0-77649222771.
- [AR-45] **THE PIERRE AUGER COLLABORATION** (2010). "Trigger and aperture of the Surface Detector Array of the Pierre Auger Observatory ", *NIM-A, Nuclear Instruments & Methods - Section A*, vol. 613, Issue 1, pp. 29-39. DOI: 10.1016/j.nima.2009.11.018. EID: 2-s2.0-77049113537.
- [AR-44] **THE PIERRE AUGER COLLABORATION** (2009). "Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger Observatory", *Astroparticle Physics*, vol. 32, n.2, pp. 89-99 (plus Erratum on affiliation, *Astroparticle Physics*, vol. 33, n.1, February 2010, pp. 65-67). DOI: 10.1016/j.astropartphys.2009.06.004. EID: 2-s2.0-69749101237. (Erratum: DOI: 10.1016/j.astropartphys.2009.10.005. EID: 2-s2.0-74149087615).
- [AR-43] **THE PIERRE AUGER COLLABORATION** (2009). "Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory", *Astroparticle Physics*, vol. 31, n.6, pp. 399-406. DOI: 10.1016/j.astropartphys.2009.04.003. EID: 2-s2.0-67649365450.
- [AR-42] TAKAHASHI, Y. AND **THE JEM-EUSO COLLABORATION** (2009). "The JEM-EUSO Mission ". *New Journal of Physics*, vol. 11, 065009. (Paper NJP/308985/SPE/39147 selected for IOP Select, <http://Select.iop.org>). DOI: 10.1088/1367-2630/11/6/065009.
- [AR-41] **THE PIERRE AUGER COLLABORATION** (2009). "Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory", *Physical Review D*, vol. 79, Issue 10, id. 102001. DOI: 10.1103/PhysRevD.79.102001. EID: 2-s2.0-65649087590.
- [AR-40] **MACCARONE M.C.**, O. CATALANO, G. LA ROSA, A. SEGRETO, R. CARUSO, A. INSOLIA (Pierre Auger Collaboration) (2009). "The UVscope Instrument in the framework of ground-based cosmic ray observatories ". *Nuclear Physics B Proc. Suppl*, vol.190, pp. 255-260 (2009). DOI: 10.1016/j.nuclphysbps.2009.03.096. EID: 2-s2.0-65649116522.
- [AR-39] CATALANO O., **MACCARONE M.C.**, SACCO B. (2008). "Single photon counting approach for imaging atmospheric Cherenkov telescopes", *Astroparticle Physics*, vol. 29, n.2, pp. 104-116. DOI: 10.1016/j.astropartphys.2007.11.011. EID: 2-s2.0-39749133703.
- [AR-38] TAKAHASHI Y., AND **THE JEM-EUSO COLLABORATION** (2008). " JEM-EUSO Mission on International Space Station", *Journal of Physics, Conf. Series*, vol.120, issue 6, pp.062013, July 2008. 10.1088/1742-6596/120/6/062013.
- [AR-37] **THE PIERRE AUGER COLLABORATION** (2008). "Correlation of the Highest-Energy Cosmic Rays with the Positions of Nearby Active Galactic Nuclei", *Astroparticle Physics*, vol.29, n.3, pp. 188-204. DOI: 10.1016/j.astropartphys.2008.01.002. EID: 2-s2.0-40949094778

- [AR-36] **THE PIERRE AUGER COLLABORATION** (2008). "Observation of the Suppression of the Flux of Cosmic Rays above 4×10^{19} eV". *Physical Review Letters*, vol. PRL 101, 061101, pp. 1-7 . DOI: 10.1103/PhysRevLett.101.061101. EID: 2-s2.0-49249109520.
- [AR-35] **THE PIERRE AUGER COLLABORATION** (2008). "Upper limit on the cosmic-ray photon flux above 10^{19} eV using the surface detector of the Pierre Auger Observatory". *Astroparticle Physics*, vol. 29, n.4, pp. 243-256. DOI: 10.1016/j.astropartphys.2008.01.003.EID: 2-s2.0-43049123778.
- [AR-34] **THE PIERRE AUGER COLLABORATION** (2008). "Upper Limit on the Diffuse Flux oh Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory". *Physical Review Letters*, PRL 100, 211101, pp. 1-7. DOI: 10.1103/PhysRevLett.100.211101. EID: 2-s2.0-44449127052.
- [AR-33] **THE PIERRE AUGER COLLABORATION** (2007). "Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects". *Science*, vol. 318, 5852, pp. 938-947. DOI: 10.1126/science.1151154. EID: 2-s2.0-36048990557.
- [AR-32] AGNETTA G., P. ASSIS, B. BIONDO, P. BROGUEIRA, A. CAPPA, O. CATALANO, J. CHAUVIN, G. 'Alì STAITI, M. DATTOLI, M.C. ESPIRITO SANTO, L. FAVA, P. GALEOTTI, S. GIARRUSSO, G. GUGLIOTTA, G. LA ROSA, D. LEBRUN, **MACCARONE M.C.**, A. MANGANO, L. MELO, S. MOREGGIA, M. PIMENTA, F. RUSSO, O. SAAVEDRA, A. SEGRETO, J.C. SILVA, P. STASSI, B. TOMÉ, P. VALLANIA, C. VIGORITO (2007). "Extensive Air Showers and Diffused Cherenkov Light Detection: the ULTRA Experiment". *NIM-A, Nuclear Instruments & Methods - Section A*, vol. 570; p. 22-35. DOI: 10.1016/j.nima.2006.09.102. EID: 2-s2.0-33845525774.
- [AR-31] CUSUMANO G., G. AGNETTA, P. ASSIS, B. BIONDO, P. BROGUEIRA, O. CATALANO, F. CELI, J. COSTA, C. DELGADO, G. DI COCCO, M.C. ESPIRITO SANTO, P. GALEOTTI, S. GIARRUSSO, A. LA BARBERA, G. LA ROSA, **MACCARONE M.C.**, A. MANGANO, T. MINEO, M. MOLES, M. PIMENTA, F. PRADA, F. RUSSO, B. SACCO, M.A. SANCHEZ, A. SEGRETO, B. TOMÉ, A. DE UGARTE POSTIGO, P. VALLANIA, C. VIGORITO (2006). "Characteristics and performance of the GAW experiment for a large field of view Cherenkov gamma-ray telescope". *Chinese Journal of Astronomy and Astrophysics*, vol. 6, Suppl..1; pp. 369-372. DOI: 10.1088/1009-9271/6/S1/49. EID: 2-s2.0-84900023094
- [AR-30] MINEO T., G. CUSUMANO, **MACCARONE M.C.**, S. MASSAGLIA, E. MASSARO, E. TRUSSONI (2001). "The hard X-ray emission from the complex SNR MSH 15-52 observed by BeppoSAX". *Astronomy and Astrophysics*, vol. 380; pp. 695-703. EID: 2-s2.0-0035584556.
- [AR-29] **MACCARONE M.C.**, T. MINEO, A. PREITE-MARTINEZ (2001). "Spatially Resolved Spectroscopy of Cassiopeia A with MECS on board BeppoSAX". *Astronomy and Astrophysics*, 368, pp. 267-279. EID: 2-s2.0-0035264273.
- [AR-28] CUSUMANO G., **MACCARONE M.C.**, L. NICASTRO, B. SACCO, P. KAARET (2000). "Detection of 33.8 Millisecond X-ray Pulsations in SAX J0635+0533". *The Astrophysical Journal*, 528, 1, L25-L28. EID: 2-s2.0-0034423484.
- [AR-27] CATALANO O., S. GIARRUSSO, G. LA ROSA, J. LINSLEY, **MACCARONE M.C.**, B. SACCO, L. SCARSI (2000). "AIRWATCH/OWL: a space mission to explore the Highest Energy Cosmic Ray radiation". *Nuclear Physics B Proc. Suppl.*, vol. 80, pp.240-244 (CDROM contents., p.08/04). Part of DOI: 10.1016/S0920-5632(00)90647-9 (ADS Bibcode 2000NuPhS..80C0804C).
- [AR-26] GIARRUSSO S., O. CATALANO, F. CELI, G. LA ROSA, J. LINSLEY, **MACCARONE M.C.**, B. SACCO, L. SCARSI (2000). "AIRWATCH/OWL: preliminary results from lab measurements and from balloon background observations". *Nuclear Physics Proc. Suppl.B*, vol. 80; p. 244-248 (CDROM contents., p.08/05). Part of DOI: 10.1016/S0920-5632(00)90647-9. (ADS Bibcode

2000NuPhS..80C0805G).

- [AR-25] VINK J., **MACCARONE M.C.**, J.S.KAASTRA, T.MINEO, J.A.M.BLEEKER, A.PREITE-MARTINEZ, H.BLOEMEN (1999). "A comparison of the X-ray line and continuum morphology of Cassiopeia A". *Astronomy and Astrophysics*, vol. 344; pp. 289-294. (ADS Bibcode 1999A&A...344..289V). (arXiv:astro-ph/9902071)
- [AR-24] OWENS A., T. OOSTERBROEK, A. ORR, A.N. PARMAR, R. SCHULZ, L.A. ANTONELLI, F. FIORE, G.P. TOZZI, **MACCARONE M.C.**, L. PIRO (1999). "BeppoSAX/LECS detection of comet C1/1995 O1 (Hale-Bopp)". *Nuclear Physics B (Proc. Suppl.)*, vol. 69/1-3; pp. 735-738. EID: 2-s2.0-0032622892.
- [AR-23] CHIAPPETTI L., G. CUSUMANO, S. DEL SORDO, **MACCARONE M.C.**, T. MINEO, S. MOLENDI (1999). "What can BeppoSAX do about the 2-10 keV cosmic background ? A Progress Report". *Nuclear Physics B (Proc. Suppl.)*, vol. 69/1-3; pp. 610-617. EID: 2-s2.0-0032622847.
- [AR-22] **MACCARONE M.C.**, M. TAVANI, B. SACCO, G. CUSUMANO, E. GOTTHELF, R. MUKHERJEE, J. HALPERN, J.R. MATTOX (1999). "BeppoSAX and ASCA observations of the field containing the gamma-ray transient GRO J1838-04". *Nuclear Physics B (Proc. Suppl.)*, vol. 69/1-3; pp. 379-382. EID: 2-s2.0-0032622616.
- [AR-21] **MACCARONE M.C.**, P. GRANDI, T. MINEO, S. MOLENDI, A. PREITE-MARTINEZ, B. SACCO, J. VINK (1999). "Imaging of Spectral Features of Cas A with MECS on board BeppoSAX". *Nuclear Physics B (Proc. Suppl.)*, vol. 69/1-3; pp. 74-77. EID: 2-s2.0-0032622874.
- [AR-20] GIOMMI P., F. FIORE, D. RICCI, S. MOLENDI, **MACCARONE M.C.**, A. COMASTRI (1999). "The BeppoSAX Deep Surveys". *Nuclear Physics B (proc. Suppl.)*, vol. 69/1-3; p. 591-599. EID: 2-s2.0-0032622619.
- [AR-19] COLAFRANCESCO S., A. ANTONELLI, P. MAZZOTTA, N. VITTORIO, V. ANTONUCCIO DELOGU, G. CUSUMANO, F. FIORE, R. FUSCO-FEMIANO, J. KAASTRA, T. MACCACHARO, **MACCARONE M.C.**, F. MATTEUCCI, G. MAZZITELLI, R. MEWE, A. PAGLIARO, L. PIRO, S. REBECCHI, Y. RENZINI, Y. REPHAELI, B. SACCO, R. SCARAMELLA, A. WOLTER (1999). "Evolution of distant X-ray clusters of galaxies: the BeppoSAX data". *Nuclear Physics B (Proc. Suppl.)*, vol. 69/1-3; p. 573-580. DOI: 10.1016/S0920-5632(98)00295-3.
- [AR-18] OWENS A., A.N. PARMAR, T. OOSTERBROEK, A. ORR, L.A. ANTONELLI, F. FIORE, R. SCHULZ, G.P. TOZZI, **MACCARONE M.C.**, L. PIRO (1998). "Evidence for Dust Related X-ray Emission from Comet C1/1995 O1 (Hale-Bopp)". *The Astrophysical Journal*, vol. 493/1-2; pp. L47-L51. EID: 2-s2.0-18544373537.
- [AR-17] OWENS A., M. GUAINAZZI, T. OOSTERBROEK, A. ORR, A.N. PARMAR, E. COSTA, M. FEROCI, L. PIRO, P. SOFFITTA, D. DAL FIUME, F. FRONTERA, E. PALAZZI, E. PIAN, J. HEISE, J.J.M. IN'T ZAND, **MACCARONE M.C.**, L. NICASTRO (1998). "The absorption properties of gamma-ray burst afterglows measured by BeppoSAX". *Astronomy and Astrophysics*, vol. 339; pp. L37-L40. EID: 2-s2.0-0001806665.
- [AR-16] CUSUMANO G., **MACCARONE M.C.**, T. MINEO, B. SACCO, E. MASSARO, R. BANDIERA, M. SALVATI (1998). "Detection of an X-ray pulsed signal from the supernova remnant N157B in the Large Magellanic Cloud". *Astronomy and Astrophysics*, vol. 333; pp. L55-L58. EID:2-s2.0-0038935151.
- [AR-15] FEROCI M., L.A. ANTONELLI, M. GUAINAZZI, J.M. MULLER, E. COSTA, L. PIRO, J. HEISE, J.J.M. IN'T ZAND, F. FRONTERA, D. DAL FIUME, L. NICASTRO, M. ORLANDINI, E. PALAZZI, G. ZAVATTINI, P. GIOMMI, A.N. PARMAR, A. OWENS, A.J. CASTRO-TIRADO, **MACCARONE M.C.**, R.C. BUTLER (1998). "BeppoSAX follow-up search for the X-ray afterglow of GRB970111". *Astronomy and Astrophysics*, vol. 332; pp. L29-L33. EID: 2-s2.0-0003128212.
- [AR-14] MOLENDI S., G. MATT, A. ANTONELLI, F. FIORE, R. FUSCO-FEMIANO, J. KAASTRA, **MACCARONE M.C.**, G.C.

- PEROLA (1998). "How abundant is Iron in the core of the Perseus cluster ?". *The Astrophysical Journal*, vol. 499; p. 608-613. (arXiv: astro-ph/9802067) DOI: 10.1086/305685.
- [AR-13] DI GESÙ V., **MACCARONE M.C.** (1997). "Fusion of Experimental Data". *Vistas in Astronomy*, vol. 41, 3; pp. 343-349. EID: 2-s2.0-33750413855.
- [AR-12] COSTA E., F. FRONTERA, J. HEISE, M. FEROCI, J. IN 'T ZAND, F. FIORE, M.N. CINTI, D. DAL FIUME, L. NICASTRO, M. ORLANDINI, E. PALAZZI, M. RAPISARDA, G. ZAVATTINI, R. JAGER, A. PARMAR, A. OWENS, S. MOLENDI, G. CUSUMANO, **MACCARONE M.C.**, S. GIARRUSSO, A. COLETTA, L.A. ANTONELLI, P. GIOMMI, J.M. MULLER, L. PIRO, R.C. BUTLER (1997). "Discovery of the X-Ray Afterglow of a Gamma-Ray Burst with BeppoSAX". *Nature*, vol. 387; pp. 783-785. DOI: 10.1038/42885. EID: 2-s2.0-0030958807.
- [AR-11] BOELLA G., L. CHIAPPETTI, G. CONTI, G. CUSUMANO, S. DEL SORDO, G. LA ROSA, **MACCARONE M.C.**, T. MINEO, S. MOLENDI, S. RE, B. SACCO, M. TRIPICIANO (1997). "The medium-energy concentrator spectrometer on board the BeppoSAX X-ray astronomy satellite". *Astronomy and Astrophysics Suppl. Series*, vol. 122; pp. 327-340. EID: 2-s2.0-4243659230.
- [AR-10] ARDIZZONE E., V. DI GESÙ, **MACCARONE M.C.** (1996). "Suitability of a Content-Based Retrieval Method in Astronomical Image Databases". *Vistas in Astronomy*, vol. 40, 3; pp. 401-409. EID: 2-s2.0-33750460967.
- [AR-9] **MACCARONE M.C.** (1996). "Fuzzy mathematical morphology: concepts and applications". *Vistas in Astronomy*, vol. 40, 4; pp. 469-477. EID: 2-s2.0-33750493642.
- [AR-8] SACCO B., G. AGNETTA, B. BIONDO, O. CATALANO, G. CUSUMANO, R. DI RAFFAELE, **MACCARONE M.C.**, A. MANGANO, T. MINEO, L. SCARSI, M. TRIPICIANO, E. COSTA, M.N. CINTI, B. MARTINO, G. NATALI, F. PEDICHINI, A. RUBINI, G. D'ALÌ STAITI, N. D'AMICO, L. NICASTRO, G. GERARDI, E. MASSARO, G. MATT, G. MEDICI, E. MORELLI (1993). "FIGARO IV: Large Area Balloon Borne Telescope to Study Rapid Time Variabilities in the Gamma-Ray Sources Energies above 50 MeV". *Il Nuovo Cimento*, vol. 16-C; pp. 715-720. DOI: 10.1007/BF02507869. EID: 2-s2.0-51249168239.
- [AR-7] **MACCARONE M.C.**, M. TRIPICIANO, V. DI GESÙ, D. TEGOLO (1993). "PDB: A Pictorial Data Base Oriented to Data Analysis". *Software Practice and Engineering*, vol. 23, 1; pp. 55-73. EID: 2-s2.0-0027205794.
- [AR-6] BUCCHERI R., W.F. FRY, **MACCARONE M.C.** (1993). "Search for short bursts of gamma-ray emission in spark chamber data: application to COS-B". *Astronomy and Astrophysics*, vol. 277; pp. 353-359. ADS Bibcode: 1993A&A...277..353B.
- [AR-5] DI GESÙ V., **MACCARONE M.C.**, D. TEGOLO (1989). "Experiments with an Adaptive Bayesian Restoration Method". *Pattern Recognition Letters*, vol. 10; pp. 289-296. DOI: 10.1016/0167-8655(89)90031-7. EID: 2-s2.0-45349113143
- [AR-4] BUCCHERI R., V. DI GESÙ, **MACCARONE M.C.**, B. SACCO (1988). "High Resolution Cluster Method for Topological Studies of the Light Curves of gamma-ray Pulsars". *Astronomy and Astrophysics*, vol. 201; pp. 194-198. ADS Bibcode: 1988A&A...201..194B.
- [AR-3] DI GESÙ V., **MACCARONE M.C.** (1986). "Features Selection and Possibility Theory". *Pattern Recognition Letters*, vol. 1; pp. 63-72. DOI: 10.1016/0031-3203(86)90033-6. EID: 2-s2.0-0022440020.
- [AR-2] DI GESÙ V., **MACCARONE M.C.** (1984). "The Bayesian Direct Deconvolution Method: Properties and Applications". *Signal Processing*, vol. 6; p. 201-211. EID: 2-s2.0-0021439393.

- [AR-1] DI GESÙ V., **MACCARONE M.C.**, A. MACHÌ (1980). "ECODATA: un sistema per la gestione di dati ambientali". *Fisica in Medicina*, vol. 2, 2; pp. 19-27.



[AS] Papers on books (Articoli su libri)

- [AS-5] **MACCARONE M.C.** (2013). "How much "fuzzy" has been (and is) my life? Few impression from a physicist debated between experiments and data analysis of high-energy astrophysics". In R. Seising, E. Trillas, C. Moraga, S. Termini (Eds.), 'On Fuzziness. An Homage to Lofti A. Zadeh.', *Study in Fuzziness and Soft Computing*, Springer, STUDFUZZ 298, Vol.I, pp.395-399 (*INVITED PAPER*). DOI: 10.1007/978-3-642-35641-4_58. ISBN: Prin -978-3-642-35640-7.
- [AS-4] **MACCARONE M.C.** , G. Lo BOSCO (2012). "Vito Di Gesù from his first to his last disciple". In 'Science: Image in Action', B. Zavidovique and G. Lo Bosco (Eds.), World Scientific Publ., pp.XV-XVIII (*INVITED PAPER*). ISBN-13 978-981-4383-28-8).
- [AS-3] DI GESÙ V., **MACCARONE M.C.**, M. TRIPICIANO (1993). "Mathematical Morphology based on Fuzzy Operators". In: R. Lowen and M. Roubens (Eds.), 'Fuzzy Logic: State of the Art', Kluwer Academic Publ. , pp. 477-486. (*INVITED PAPER*) DOI: 10.1007/978-94-011-2014-2_44, ISBN: 978-94-010-4890-3
- [AS-2] DI GESÙ V., **MACCARONE M.C.** (1989). "Vision Problems in Sparse Images". In: G.G. PIERONI (ED.), 'Issues on Machine Vision', Springer Verlag, pp. 135-147. (*INVITED PAPER*). DOI: 10.1007/978-3-7091-2830-5_10
- [AS-1] **MACCARONE M.C.**, R. BUCCHERI (1989). "Decision Problems in the Search for Periodicities in γ -Ray Astronomy. How can A.I. help ?". In: A. Heck and F. Murtagh (Eds.), ' Knowledge-Based System in Astronomy', Springer-Verlag, pp. 79-87. (*INVITED PAPER*). DOI:10.1007/3-540-51044-3_18, ISBN: ISBN: 3-540-51044-3.



[CP] Conferences Proceedings (Contributi in Atti dei Congressi)

- [CP-143] A. BULGARELLI, F. LUCARELLI, G. TOSTI, V. CONFORTI, N. PARMIGGIANI, J. H. SCHWARZ, I. ABU, J. G. ALVAREZ GALLARDO, L. A. ANTONELLI, M. ARAYA, M. BALBO, C. BIGONGIARI, P. BRUNO, M. CAPALBI, M. CARDILLO, A.CAROSI, L. CASTALDINI, G. A. RODRIGUEZ CASTILLO, O. CATALANO, A. A. COMPAGNINO, M. CORPORA, A. COSTA, S. CRESTAN, G. CUSUMANO, A. D'ÀI, V. FIORETTI, E. FEDOROVA, F. FIORDOLIVA, S. GALLOZZI, S. GERMANI, F. GIANOTTI, V. GIORDANO, A. GIULIANI, A. GRILLO, I. HUERTA, F. INCARDONA, S. IOVENITTI, N. LA PALOMBARA, V. LA PAROLA, M. LODI, S. LOMBARDI, **M. C. MACCARONE**, G. MALASPINA, M. MASTROPIETRO, R. MILLUL, T. MINEO, G. MONTENEGRO, D. MOLLIKA, K. MUNARI, A. PAGLIARO, G. PARESCHI, V. PASTORE, M. PERRI, F. PINTORE, P. ROMANO, F. RUSSO, R. Z. SANCHEZ, P. SANGIORGI, F. G. SATURNI, N. SAYES, E. SCIACCA, V. SLIUSAR, S. SCUDERI, A. TACCHINI, V. TESTA, M. TRIFOGLIO, A. TUTONE, S. VERCELLONE, F. VISCONTI, R. WALTER, G. ZACHARIS, FOR **THE ASTRIS PROJECT** (2023), "The Supervisory Control and Data Acquisition Software System for the ASTRIS Mini-Array Project", Proc. ADASS XXXIII, 5-9 November 2023, Tucson, Arizona.
- [CP-142] G. SOTTILE, P. SANGIORGI, C. GARGANO, F. LO GERFO, M. CORPORA, O. CATALANO, D. IMPIOMBATO, D. MOLLIKA, M. CAPALBI, T. MINEO, G. CONTINO, B. BIONDO, F. RUSSO, **M. C. MACCARONE**, G. LA ROSA, S. GIARRUSSO, G. LETO, A. GRILLO, G. BONANNO, G. ROMEO, S. GAROZZO, D. MARANO, V. CONFORTI, F. GIANOTTI, S. SCUDERI, G. PARESCHI, G. TOSTI, A. ABBA, A. CUSIMANO, F. CAPONIO, C. TINTORI, M. LIPPI, F.

VIVALDI, G. MARCHIORI, M. SPINOLA, A. COLOVINI, F. PEREZ, S. AHMAD, J. B. CIZEL, J. FLUERY, FOR **THE ASTRI PROJECT** (2023), “The ASTRI Cherenkov Camera: from the prototype to the industrial version for the Mini-Array”, Proc. IEEE-NSS-MIC-RTSD 2022, Milano-IT, DOI: 10.48550/arXiv.2301.09915.

- [CP-141] T. MINEO, A.A. COMPAGNINO, G. CONTINO, S. IOVENITTI, D. MOLLIKA, O. CATALANO, M. CAPALBI, R.Z. SANCHEZ CASTELAN, C. BIGONGIARI, M. CARDILLO, E. FEDOROVA, A. GIULIANI, D. IMPIOMBATO, V. LA PAROLA, G. LETO, S. LOMBARDI, L. FABRIZIO, **M.C. MACCARONE**, M. MASTROPIETRO, C. RIGHI, G. TOSTI, FOR **THE ASTRI PROJECT** (2023), “The ASTRI Mini-Array calibration software system”, Proc. 38th International Cosmic Ray Conference, ICRC 2023, 26 July - 3 August, 2023, Nagoya, Japan, PoS(ICRC2023)733.
- [CP-140] S. LOMBARDI, L.A. ANTONELLI, C. BIGONGIARI, M. CARDILLO, E. FEDOROVA, S. GALLOZZI, F. LUCARELLI, M. MASTROPIETRO, F.G. SATURNI, F. VISCONTI, A. BULGARELLI, M. CAPALBI, O. CATALANO, A. COMPAGNINO, V. CONFORTI, S. CRESTAN, G. CUSUMANO, A. D’Aì, S. GERMANI, A. GIULIANI, S. IOVENITTI, A. LA BARBERA, V. LA PAROLA, **M.C. MACCARONE**, T. MINEO, D. MOLLIKA, A. PAGLIARO, N. PARMIGGIANI, M. PERRI, F. PINTORE, S. SCUDERI, G. TOSTI, A. TUTONE, S. VERCELLONE, L. ZAMPIERI, G. PARESCHI, FOR **THE ASTRI PROJECT** (2023), “The Data Processing System of the ASTRI Mini-Array Project”, Proc. 38th International Cosmic Ray Conference, ICRC 2023, 26 July - 3 August, 2023, Nagoya, Japan, PoS(ICRC2023)682.
- [CP-139] N. PARMIGGIANI, A. BULGARELLI, L. BARONCELLI, A. ADDIS, V. FIORETTI, A. DI PIANO, M. CAPALBI, O. CATALANO, V. CONFORTI, M. FIORI, F. GIANOTTI, S. IOVENITTI, F. LUCARELLI, **M. C. MACCARONE**, T. MINEO, S. LOMBARDI, V. PASTORE, F. RUSSO, P. SANGIORGI, S. SCUDERI, G. TOSTI, M. TRIFOGLIO, L. ZAMPIERI, FOR **THE ASTRI PROJECT** (2022), “The Online Observation Quality System software architecture for the ASTRI Mini-Array project”, Proc. SPIE, Vol. 12189, DOI: 10.1117/12.2629278.
- [CP-138] S. LOMBARDI, F. LUCARELLI, C. BIGONGIARI, S. GALLOZZI, M. CARDILLO, M. MASTROPIETRO, F. GABRIELE SATURNI, F. VISCONTI, L.A. ANTONELLI, A. BULGARELLI, M. CAPALBI, O. CATALANO, A.A. COMPAGNINO, V. CONFORTI, S. CRESTAN, G. CUSUMANO, A. D’Aì, S. GERMANI, A. GIULIANI; S. IOVENITTI, V. LA PAROLA, **M.C. MACCARONE**, T. MINEO, D. MOLLIKA, A. PAGLIARO, N. PARMIGGIANI, M. PERRI, F. PINTORE, S. SCUDERI, G. TOSTI, S. VERCELLONE, L. ZAMPIERI, FOR **THE ASTRI PROJECT** (2022), “The data processing, simulation, and archive systems of the ASTRI Mini-Array project”, Proc. SPIE, Vol. 12189, DOI: 10.1117/12.2629362.
- [CP-137] A. BULGARELLI, F. LUCARELLI, G. TOSTI, V. CONFORTI, N. PARMIGGIANI, J. H. SCHWARZ, L. A. ANTONELLI, L. BARONCELLI, C. BIGONGIARI, M. CAPALBI, M. CARDILLO, G. A. RODRIGUEZ CASTILLO, O. CATALANO, A. A. COMPAGNINO, M. CORPORA, A. COSTA, S. CRESTAN, G. CUSUMANO, A. D’Aì, V. FIORETTI, S. GALLOZZI, S. GERMANI, F. GIANOTTI, V. GIORDANO, A. GIULIANI, P. G. BRUNO, J. G. GREEN, A. GRILLO, F. INCARDONA, S. IOVENITTI, N. LA PALOMBARA, V. LA PAROLA, M. LANDONI, S. LOMBARDI, **M. C. MACCARONE**, R. MILLUL, T. MINEO, D. MOLLIKA, A. PAGLIARO, G. PARESCHI, V. PASTORE, M. PERRI, F. PINTORE, P. ROMANO, F. RUSSO, P. SANGIORGI, F. G. SATURNI, E. SCIACCA, S. SCUDERI, A. TACCHINI, V. TESTA, M. TRIFOGLIO, A. TUTONE, S. VERCELLONE FOR **THE ASTRI PROJECT** (2022), “The Software Architecture and development approach for the ASTRI Mini-Array gamma-ray air-Cherenkov experiment at the Observatorio del Teide”, Proc. SPIE, Vol. 12189, DOI: 10.1117/12.2629164.
- [CP-136] D. IMPIOMBATO, G. SOTTILE, P. F. LO GERFO, B. BIONDO, O. CATALANO, A. A. COMPAGNINO, G. CONTINO, M. CORPORA, C. GARGANO, S. GIARRUSSO, **M. C. MACCARONE**, T. MINEO, G. LA ROSA, G. LETO, G. PARESCHI, F. RUSSO, P. SANGIORGI, S. SCUDERI, G. TOSTI FOR **THE ASTRI PROJECT** (2022), “UVSiPM: a light auxiliary detector to measure the night sky background seen by the ASTRI mini-array Cherenkov telescopes at the Observatorio del Teide”, Proc. SPIE, Vol. 12191, DOI: 10.1117/12.2629875.
- [CP-135] T. MINEO, **M.C. MACCARONE**, L.A. ANTONELLI, F. AMBROSINO, P.G. BRUNO, A. BULGARELLI, M. CAPALBI, O. CATALANO, M. CENTRONE, A.A. COMPAGNINO, A. DI PAOLA, M. FACCINI, S. GIARRUSSO, V. GIORDANO, D. IMPIOMBATO, S. IOVENITTI, G. LETO, S. LOMBARDI, F. LUCARELLI, D. MOLLIKA, G. PARESCHI, N. PARMIGGIANI, C.

RIGHI, P. SANGIORGI, S. SCUDERI, A. SEGRETO, G. SIRONI, G. SOTTILE, R. SPEZIALI, G. TOSTI, L. ZAMPIERI FOR THE **ASTRI PROJECT** (2021), “Tools and Procedures for the ASTRI Mini-Array Calibration”, Proc. 37th ICRC, 12-243 July 2021, Berlin, Germany, PoS(ICRC2021)197.

- [CP-134] A.A. COMPAGNINO, T. MINEO, **M. C. MACCARONE**, O. CATALANO, D. IMPIOMBATO, S. GIARRUSSO FOR THE **ASTRI PROJECT** (2021), “The ASTRI-Horn telescope: comparison with the auxiliary UVscope measurements as calibration tool”, Proc. 37th ICRC, 12-243 July 2021, Berlin, Germany, PoS(ICRC2021)295.
- [CP-133] ROBERTA ZANIN ON BEHALF OF THE CTA OBSERVATORY, **CTA CONSORTIUM** AND LST COLLABORATION (2021), “Cherenkov Telescope Array: the World’s largest VHE gamma-ray observatory”, Proc. 37th ICRC, 12-243 July 2021, Berlin, Germany, PoS(ICRC2021)005.
- [CP-132] N. PARMIGGIANI, A. BULGARELLI, L. BARONCELLI, A. ADDIS, V. FIORETTI, A. DI PIANO, M. CAPALBI, O. CATALANO, V. CONFORTI, M. FIORI, F. GIANOTTI, S. IOVENITTI, F. LUCARELLI, **M. C. MACCARONE**, T. MINEO, F. RUSSO, P. SANGIORGI, S. SCUDERI, G. TOSTI, M. TRIFOGLIO, L. ZAMPIERI FOR THE **ASTRI PROJECT** (2021), “The Online Observation Quality System for the ASTRI Mini-Array”, Proc. 37th ICRC, 12-243 July 2021, Berlin, Germany, PoS(ICRC2021)692.
- [CP-131] E. GIRO, R. CANESTRARI, P. BRUNO, O. CATALANO, D. FUGAZZA, N. LA PALOMBARA, **M.C. MACCARONE**, G. PARESCHI, F. RUSSO, S. SCUDERI, A. SEGRETO, G. SIRONI, G. TOSTI, FOR THE **CTA ASTRI PROJECT** AND G. MARCHIORI, A. BUSATTA, E. MARCUZZI, I. FOLLA (2019), “The ASTRI-Horn telescope validation toward the production of the ASTRI Mini-Array: a proposed pathfinder for the Cherenkov Telescope Array”, Procs. SPIE 11114, Optics for EUV, X-Ray and Gamma-Ray Astronomy IX, 111191E (9 September 2019); doi: 10.1117/12.2530896.
- [CP-130] R. CANESTRARI, C. GARGANO, G. SOTTILE, B. BIONDO, G. BONANNO, P. BRUNO, M. CAPALBI, O. CATALANO, V. CONFORTI, S. GAROZZO, F. GIANOTTI, S. GIARRUSSO, E. GIRO, A. GRILLO, D. IMPIOMBATO, G. LA ROSA, **M.C. MACCARONE**, D. MARANO, T. MINEO, G. PARESCHI, G. ROMEO, FR. RUSSO, P. SANGIORGI, S. SCUDERI, A. SEGRETO, G. SIRONI, FOR THE **CTA ASTRI PROJECT** (2019), “The innovative Cherenkov Camera based on SiPM sensors of the ASTRI-Horn telescope: from the T/M and electrical design to the full assembly and testing in a harsh environment”, Procs. SPIE 11114, Hard X-Ray, Gamma-Ray, and Neutron Detector Physics XXI, 111140A (9 September 2019); doi: 10.1117/12.2528153.
- [CP-129] A. SEGRETO, O. CATALANO, **M. C. MACCARONE**, T. MINEO, A. LA BARBERA,, FOR THE **CTA ASTRI PROJECT** (2019), “Calibration and monitoring of the ASTRI-Horn telescope by using the night-sky background as measured by the photon-statistics analysis (“variance”) of the detector signals”, Proc. 36th ICRC, 24 July – 1st August 2019, Madison, WI, USA, PoS(ICRC2019)791 Vol.358 (arXiv: 1909.08750). (CTA contrib. at ICRC-2019: arXiv:1911.12077).
- [CP-128] T. MINEO, **M.C. MACCARONE**, A. COMPAGNINO, M. CAPALBI, O. CATALANO, G. CONTINO, D. IMPIOMBATO, P. SANGIORGI, S. GAROZZO, D. MARANO, V. CONFORTI, FOR THE **CTA ASTRI PROJECT** (2019), “Muon calibration of the ASTRI-Horn telescope: preliminary results”, Proc. 36th ICRC, 24 July – 1st August 2019, Madison, WI, USA, PoS(ICRC2019)744 Vol.358 (arXiv: 1907.09197). (CTA contrib. at ICRC-2019: arXiv:1911.12077).
- [CP-127] M. GAUG, S. FEAGAN, A. MITCHELL, **M. C. MACCARONE**, T. MINEO, A. OKUMURA, FOR THE **CTA CONSORTIUM** (2019), “Using Muon Rings for the Optical Throughput Calibration of the Cherenkov Telescope Array”, Proc. 36th ICRC, 24 July – 1st August 2019, Madison, WI, USA, PoS(ICRC2019)684 Vol.358 (arXiv: 1907.08510). (CTA contrib. at ICRC-2019: arXiv:1911.12077).
- [CP-126] O. CATALANO, M. CAPALBI, C. GARGANO, S. GIARRUSSO, D. IMPIOMBATO, G. LA ROSA, **M.C. MACCARONE**, T. MINEO, F. RUSSO, P. SANGIORGI, A. SEGRETO, G. SOTTILE, B. BIONDO, G. BONANNO, S. GAROZZO, A. GRILLO,

D. MARANO, G. ROMEO, S. SCUDERI, R. CANESTRARI, P. CONCONI, E. GIRO, G. PARESCHI, G. SIRONI, V. CONFORTI, F. GIANOTTI, R. GIMENES, FOR **THE CTA ASTRI PROJECT** (2018), “The ASTRI camera for the Cherenkov Telescope Array”, Proc. SPIE 10702, Ground-based and Airborne Instrumentation for Astronomy VII, 1070237 (6 July 2018); doi: 10.1117/12.2314984.

- [CP-125] **THE CTA CONSORTIUM**, represented by R.A. Ong (2017), “Cherenkov Telescope Array: The Next Generation Gamma-ray Observatory”, Proc. 35th ICRC, 12-20 July 2017, Busan, South Korea, PoS(ICRC2017)1071 (arXiv: 1709.05434). (CTA contrib. at ICRC-2017: arXiv:1709.03483).
- [CP-124] **M.C. MACCARONE**, , FOR **THE CTA ASTRI PROJECT**, (2017), “ASTRI for the Cherenkov Telescope Array”, Proc. 35th ICRC, 12-20 July 2017, Busan, South Korea, PoS(ICRC2017)855 (arXiv: 1709.03078). (CTA contrib. at ICRC-2017: arXiv:1709.03483).
- [CP-123] **M.C. MACCARONE**, D. PARSONS, M. GAUG, R. DE LOS REYES, FOR **THE CTA CONSORTIUM**, (2017), “Tools and Procedures for the CTA Array Calibration”, Proc. 35th ICRC, 12-20 July 2017, Busan, South Korea, PoS(ICRC2017)854 (arXiv: 1709.03081). (CTA contrib. at ICRC-2017: arXiv:1709.03483).
- [CP-122] S. LOMBARDI, C. BIGONGIARI, S. GALLOZZI, L.A. ANTONELLI, D. BASTIERI, I. DONNARUMMA, F. LUCARELLI, M. MASTROPIETRO, P. MUNAR, M. PERRI, A. STAMERRA, F. VISCONTI, **M.C. MACCARONE**, , FOR **THE CTA ASTRI PROJECT**, (2017), “ASTRI SST-2M prototype and mini-array simulation chain, data reduction software, and archive in the framework of the Cherenkov Telescope Array”, Proc. 35th ICRC, 12-20 July 2017, Busan, South Korea, PoS(ICRC2017)804 (arXiv:1709.02570). (CTA contrib. at ICRC-2017: arXiv:1709.03483).
- [CP-121] M. DEL SANTO, O. CATALANO, T. MINEO, G. CUSUMANO, **M.C. MACCARONE**, G. PARESCHI, D. CARBONE, V. LA PAROLA, G. LA ROSA, G. SOTTILE, S. VERCELLONE, L. ZUCCARELLO (2017), “Looking inside volcanoes with the Imaging Atmospheric Cherenkov Telescopes”, Proc. RICH 2016, 5-9 September 2016, Bled, Slovenia, *NIM-A, Nuclear Instrum. & Methods - Section A*, 876 (2017) 111-114. DOI:10.1016/j.nima.2017.02.029.
- [CP-120] M. DEL SANTO, O. CATALANO, T. MINEO, G. CUSUMANO, **M.C. MACCARONE**, V. LA PAROLA, G. LA ROSA, G. SOTTILE, S. VERCELLONE, G. PARESCHI, D. CARBONE, L. ZUCCARELLO (2017), “A new technique for probing the internal structure of volcanoes using cosmic-ray muons”, Proc. CRIS 2016, 4-8 July 2016, Ischia, Italy, *Nuclear and Particle Physics Proceedings*, 291-293 (2017) 122-125. DOI: 10.1016/j.nuclphysbps.2017.06.025.
- [CP-119] **M.C. MACCARONE**, T. MINEO, M. CAPALBI, V. CONFORTI, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM**, AND M. COFFARO (2016), “Pre-selecting muon events in the camera server of the ASTRI telescopes for the Cherenkov Telescope Array”, Proc. SPIE 9913, Software and Cyberinfrastructure for Astronomy IV, 99132E (8 August 2016). Paper No. 9913-70. DOI: 10.1117/12.2230835.
- [CP-118] V. CONFORTI, E. ANTOLINI, G. BONNOLI, P. BRUNO, A. BULGARELLI, M. CAPALBI, V. FIORETTI, D. FUGAZZA, D. GARDIOL, A. GRILLO, G. LETO, S. LOMBARDI, F. LUCARELLI, **M.C. MACCARONE**, G. MALAGUTI, G. PARESCHI, F. RUSSO, P. SANGIORGI, J. SCHWARZ, S. SCUDERI, C. TANJI, G. TOSTI, M. TRIFOGLIO, S. VERCELLONE, R. ZANMAR SANCHEZ, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2016), “Software Use Cases to Elicit the Software Requirements Analysis within the ASTRI Project”, Proc. SPIE 9913, Software and Cyberinfrastructure for Astronomy IV, 991340 (July 26, 2016), Paper No. 9913-148. DOI:10.1117/12.2232292.
- [CP-117] T. MINEO, **M.C. MACCARONE**, G. CUSUMANO, V. LA PAROLA, P. ROMANO, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2016), “Using muon rings for the optical calibration of the ASTRI telescopes for the Cherenkov Telescope Array”, Proc. SPIE 9913, Software and

Cyberinfrastructure for Astronomy IV, 99132R (July 26, 2016). Paper No. 9913-121. DOI:10.1117/12.2232256.

- [CP-116] A. SEGRETO, **M.C. MACCARONE**, O. CATALANO, B. BIONDO, C. GARGANO, G. LA ROSA, F. RUSSO, G. SOTTILE, M. FIORINI, S. INCORVAIA, G. TOSO, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2016), “The absolute calibration strategy of the ASTRI SST-2M telescope proposed for the Cherenkov Telescope Array and its external ground-based illumination system”, Proc. SPIE 9906, Ground-based and Airborne Telescopes VI, 99063S (July 27, 2016). Paper No. 9906-142. DOI:10.1117/12.2231922
- [CP-115] C. TANCI, G. TOSTI, V. CONFORTI, J. SCHWARZ, E. ANTOLINI, L.A. ANTONELLI, A. BULGARELLI, C. BIGONGIARI, P. BRUNO, R. CANESTRARI, M. CAPALBI, E. CASCONI, O. CATALANO, A. DI PAOLA, F. DI PIERRO, V. FIORETTI, S. GALLOZZI, D. GARDIOL, F. GIANOTTI, E. GIRO, A. GRILLO, N. LA PALOMBARA, G. LETO, S. LOMBARDI, **M.C. MACCARONE**, G. PARESCHI, F. RUSSO, P. SANGIORGI, S. SCUDERI, L. STRINGHETTI, V. TESTA, M. TRIFOGLIO, S. VERCELLONE, A. ZOLI, ON BEHALF OF **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2016), “The ASTRI mini-array software system (MASS) implementation: a proposal for the Cherenkov Telescope Array”, Proc. SPIE 9913, Software and Cyberinfrastructure for Astronomy IV, 99133L (August 9, 2016), Paper No. 9913-93. DOI:10.1117/12.2231294.
- [CP-114] T. MONTARULI, T. GREENSHAW, H. SOL, G. PARESCHI ET AL FOR **THE CTA CONSORTIUM**, (2015), “The small size telescope projects for the Cherenkov Telescope Array”, In: ‘Proc. 34th ICRC-2015’, The Hague, The Netherlands, 30 July – 6 August 2015. PoS(ICRC2015)1043. (arXiv:1508.06472).
- [CP-113] M. GAUG, D. BERGE, M. DANIEL, M. DORO, A. FOERSTER, **M.C. MACCARONE**, D. PARSONS, CH. VAN ELDIK, FOR **THE CTA CONSORTIUM** (2015), “Calibration strategy of the Cherenkov Telescope Array”, In: ‘Proc. 34th ICRC-2015’, The Hague, The Netherlands, 30 July – 6 August 2015. PoS(ICRC2015)929. (arXiv: 1508.07225) .
- [CP-112] M. DORO, M. DANIEL, R. DE LOS REYES, M. GAUG, **M.C. MACCARONE**, FOR **THE CTA CONSORTIUM** (2015), “Strategy implementation for the CTA Atmospheric Monitoring Program”, Procs. AtmoHEAD 2014, Padova, Italy, 19-21 May 2014, EPJ Web of Conferences 89, 02005, EDP Sciences Web of Conferences, Vol. 89, pp.48-53, DOI: 10.1051/epjconf/20158902005. (arXiv:1503.05481).
- [CP-111] G. LETO, R. ZANMAR SANCHEZ, G. BELLASSAI, P. BRUNO, **M.C. MACCARONE**, E. MARTINETTI, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2015), “All Sky Camera, LIDAR and Electric Field Meter: auxiliary instruments for the ASTRI SST-2M prototype”, Procs. AtmoHEAD 2014, Padova, Italy, 19-21 May 2014, EPJ Web of Conferences 89, 02006, EDP Sciences Web of Conferences, Vol. 89, 02006, pp.54-57, DOI: 10.1051/epjconf/20158902006. (arXiv:1502.02241).
- [CP-110] L. STRINGHETTI, N. LA PALOMBARA, R. CANESTRARI, O. CATALANO, M. FIORINI, E. GIRO, **M.C. MACCARONE**, G. PARESCHI, G. TOSTI, S.VERCELLONE, ON BEHALF OF **THE ASTRI COLLABORATION AND FOR THE CTA CONSORTIUM** (2014), “The Verification Process in the ASTRI Project: the Verification Control Document (VCD)”, Procs. INCOSE Italian Chapter Conference on Systems Engineering (CIISE2014), Rome, Italy, November 24 – 25, 2014, CEUR-WS, <http://ceur-ws.org/Vol-1300/> . EID: 2-s2.0-84915806105.
- [CP-109] V. CONFORTI, G. TOSTI, J. SCHWARZ, P. BRUNO, M. CEFALA’, A. DI PAOLA, F. GIANOTTI, A. GRILLO, F. RUSSO, C. TANCI, V. TESTA, L.A. ANTONELLI, R. CANESTRARI, O. CATALANO, M. FIORINI, S. GALLOZZI, E. GIRO, N. LA PALOMBARA, G. LETO, **M.C. MACCARONE**, G. PARESCHI, L. STRINGHETTI, M. TRIFOGLIO, S. VERCELLONE, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2015). “The high-level interfaces definitions in the ASTRI/CTA Mini Array Software System (MASS)”. In: A.R. Taylor and E. Rosolowsky (Eds.), Procs. ADASS XXIV, Calgary, Canada, 5-9 October 2014, ASP Conf. Series, Vol.495. pp.387. ISBN:

978-1-58381-874-9.

- [CP-108] O. CATALANO, **M.C. MACCARONE**, C. GARGANO, G. LA ROSA, A. SEGRETO, G. SOTTILE, V. DE CAPRIO, F. RUSSO, M. CAPALBI, P. SANGIORGI, G. BONANNO, A. GRILLO, S. GAROZZO, D. MARANO, S. BILLOTTA, G. ROMEO, L. STRINGHETTI, M. FIORINI, N. LA PALOMBARA, S. INCORVAIA, G. TOSO, D. IMPIOMBATO, S. GIARRUSSO, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2014). “The camera of the ASTRI SST-2M prototype for the Cherenkov Telescope Array”. In Proc. SPIE 9147, Ground-based and Airborne Instrumentation for Astronomy V, 91470D (July 8, 2014); doi:10.1117/12.2055099. EID: 2-s2.0-84915804870.
- [CP-107] **M.C. MACCARONE**, A. SEGRETO, O. CATALANO, G. LA ROSA, F. RUSSO, G. SOTTILE, C. GARGANO, B. BIONDO, M. FIORINI, S. INCORVAIA, G. TOSO, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2014). “Auxiliary instruments for the absolute calibration of the ASTRI SST-2M prototype for the Cherenkov Telescope Array”. In Proc. SPIE 9149, Observatory Operations: Strategies, Processes, and Systems V, 914918 (August 6, 2014); doi:10.1117/12.2054526.
- [CP-106] M. GAUG, D. BERGE, M. DANIEL, M. DORO, A. FÖRSTER,, W. HOFMANN, **M.C. MACCARONE**, D. PARSONS, R. DE LOS REYES, C. VAN ELDIK, FOR **THE CTA CONSORTIUM** (2014). “Calibration strategies for the Cherenkov Telescope Array”. In Proc. SPIE 9149, Observatory Operations: Strategies, Processes, and Systems V, 914919 (August 6, 2014); doi:10.1117/12.2054536. EID: 2-s2.0-84922652328.
- [CP-105] M. FIORINI, N. LA PALOMBARA, L. STRINGHETTI, R. CANESTRARI, O. CATALANO, E. GIRO, G. LETO, **M.C. MACCARONE**, G. PARESCHI, G. TOSTI, S. VERCELLONE, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2014). “The ASTRI SST-2M prototype for the next generation of Cherenkov telescopes: a single framework approach from requirement analysis to Integration and Verification strategy definition”. In Proc. SPIE 9150, Modeling, Systems Engineering, and Project Management for Astronomy VI, 915024 (August 4, 2014). DOI:10.1117/12.2054865. EID: 2-s2.0-84906872186
- [CP-104] G. TOSTI, J. SCHWARZ, L.A. ANTONELLI, M. TRIFOGLIO, O. CATALANO, **M.C. MACCARONE**, G. LETO, F. GIANOTTI, R. CANESTRARI, E. GIRO, M. FIORINI, N. LA PALOMBARA, G. PARESCHI, L. STRINGHETTI, S. VERCELLONE, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2014). “The ASTRI/CTA Mini-Array Software System”. In Proc. SPIE 9152, Software and Cyberinfrastructure for Astronomy III, 915204 (July 18, 2014). DOI:10.1117/12.2055067. EID: 2-s2.0-84906894985
- [CP-103] S. BILLOTTA, D. MARANO, G. BONANNO, M. BELLUSO, A. GRILLO, S. GAROZZO, G.ROMEO, M.C. TIMPANARO, **M.C. MACCARONE**, O. CATALANO, G. LA ROSA, G. SOTTILE, D. IMPIOMBATO, C. GARGANO, S. GIARRUSSO, FOR **THE ASTRI COLLABORATION AND THE CTA CONSORTIUM** (2014). “SiPM detectors for the ASTRI project in the framework of the Cherenkov Telescope Array”. In Proc. SPIE 9154, High Energy, Optical, and Infrared Detectors for Astronomy VI, 91541R (July 23, 2014); doi:10.1117/12.2055331. EID: 2-s2.0-84906346594
- [CP-102] N. LA PALOMBARA, P. CARAVEO, M. FIORINI, L. STRINGHETTI, R. CANESTRARI, R. MILLUL, G. PARESCHI, O. CATALANO, **M.C. MACCARONE**, S. VERCELLONE, E. GIRO, G. TOSTI, FOR **THE ASTRI COLLABORATION** (2014). “The INAF ASTRI Project in the framework of CTA”. In: ‘Proc. ICATPP-2013’, World Scientific , (arXiv:1402.4187v1). DOI: 10.1142/9789814603164_0119. ISBN: 978-981-4603-15-7.
- [CP-101] G. LETO, **M.C. MACCARONE**, G. BELLASSAI, P. BRUNO, M. FIORINI, A. GRILLO, E. MARTINETTI, G. LA ROSA, A. SEGRETO, G. SOTTILE, L. STRINGHETTI, FOR **THE ASTRI COLLABORATION** (2014). “The Site of the ASTRI SST-2M Telescope Prototype: Atmospheric Monitoring and Auxiliary Instrumentation”. In: ‘Proc. AtmoHEAD Workshop 2013’, CEA, Saclay, France, 10-12 June 2013 (arXiv:1402.3515v1).
- [CP-100] G. TOSTI, J. SCHWARZ, M. TRIFOGLIO, G. LETO, F. GIANOTTI, R. CANESTRARI, O. CATALANO, M. FIORINI, E.

GIRO, N. LA PALOMBARA, **M.C. MACCARONE**, G. PARESCHI, L. STRINGHETTI, S. VERCELLONE, ON BEHALF OF **THE ASTRI COLLABORATION** (2013). “The ASTRI Mini-Array Software System”. In: ‘Proc. 33rd ICRC-2013’, Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0922) (arXiv:1307.6847).

- [CP-99] **M.C. MACCARONE**, G. LETO, P. BRUNO, M. FIORINI, A. GRILLO, A. SEGRETO, L. STRINGHETTI, FOR **THE ASTRI COLLABORATION** (2013). “The Site of the ASTRI SST-2M Telescope Prototype”. In: ‘Proc. 33rd ICRC-2013’, Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0110) (arXiv:1307.5139).
- [CP-98] S. VERCELLONE, G. AGNETTA, L.A. ANTONELLI, D. BASTIERI, G. BELLASSAI, M. BELLUSO, C. BIGONGIARI, S. BILLOTTA, B. BIONDO, G. BONANNO, G. BONNOLI, P. BRUNO, A. BULGARELLI, R. CANESTRARI, M. CAPALBI, P. CARAVEO, A. CAROSI, E. CASCONI, O. CATALANO, M. CEREDA, P. CONCONI, V. CONFORTI, G. CUSUMANO, V. DE CAPRIO, A. DE LUCA, A. DI PAOLA, F. DI PIERRO, D. FANTINEL, M. FIORINI, D. FUGAZZA, D. GARDIOL, M. GHIGO, F. GIANOTTI, S. GIARRUSSO, E. GIRO, A. GRILLO, D. IMPIOMBATO, S. INCORVAIA, A. LA BARBERA, N. LA PALOMBARA, V. LA PAROLA, G. LA ROSA, L. LESSIO, G. LETO, S. LOMBARDI, F. LUCARELLI, **M.C. MACCARONE**, G. MALAGUTI, G. MALASPINA, V. MANGANO, D. MARANO, E. MARTINETTI, R. MILLUL, T. MINEO, A. MISTÒ, C. MORELLO, G. MORLINO, M.R. PANZERA, G. PARESCHI, G. RODEGHIERO, P. ROMANO, F. RUSSO, B. SACCO, N. SARTORE, J. SCHWARZ, A. SEGRETO, G. SIRONI, G. SOTTILE, A. STAMERRA, E. STRAZZERI, L. STRINGHETTI, G. TAGLIAFERRI, V. TESTA, M.C. TIMPANARO, G. TOSO, G. TOSTI, M. TRIFOGLIO, P. VALLANIA, V. ZITELLI (**THE ASTRI COLLABORATION**) AND F. TAVECCHIO (2013). “The ASTRI Mini-Array Science Case”. In: ‘Proc. 33rd ICRC-2013’, Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0109) (arXiv:1307.5671).
- [CP-97] E. STRAZZERI, G. BONNOLI, S. LOMBARDI, **M.C. MACCARONE**, T. MINEO, FOR **THE ASTRI COLLABORATION** (2013). “Calibration of the ASTRI SST-2M Prototype using Muon Ring Images”. In: ‘Proc. 33rd ICRC-2013’, Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0625) (arXiv:1307.5204).
- [CP-96] O. CATALANO, S. GIARRUSSO, G. LA ROSA, **M.C. MACCARONE**, T. MINEO, F. RUSSO, G. SOTTILE, D. IMPIOMBATO, G. BONANNO, M. BELLUSO, S. BILLOTTA, A. GRILLO, D. MARANO, V. DE CAPRIO, M. FIORINI AND L. STRINGHETTI, FOR **THE ASTRI COLLABORATION**, S. GAROZZO, G. ROMEO (2013). “The ASTRI SST-2M Prototype: Camera and Electronics”. In: ‘Proc. 33rd ICRC-2013’, Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0111) (arXiv:1307.5142).
- [CP-95] C. BIGONGIARI, F. DI PIERRO, C. MORELLO, A. STAMERRA, P. VALLANIA, G. AGNETTA, L.A. ANTONELLI, D. BASTIERI, G. BELLASSAI, M. BELLUSO, S. BILLOTTA, B. BIONDO, G. BONANNO, G. BONNOLI, P. BRUNO, A. BULGARELLI, R. CANESTRARI, M. CAPALBI, P. CARAVEO, A. CAROSI, E. CASCONI, O. CATALANO, M. CEREDA, P. CONCONI, V. CONFORTI, G. CUSUMANO, V. DE CAPRIO, A. DE LUCA, A. DI PAOLA, D. FANTINEL, M. FIORINI, D. FUGAZZA, D. GARDIOL, M. GHIGO, F. GIANOTTI, S. GIARRUSSO, E. GIRO, A. GRILLO, D. IMPIOMBATO, S. INCORVAIA, A. LA BARBERA, N. LA PALOMBARA, V. LA PAROLA, G. LA ROSA, L. LESSIO, G. LETO, S. LOMBARDI, F. LUCARELLI, **M.C. MACCARONE**, G. MALAGUTI, G. MALASPINA, V. MANGANO, D. MARANO, E. MARTINETTI, R. MILLUL, T. MINEO, A. MISTÒ, G. MORLINO, M.R. PANZERA, G. PARESCHI, G. RODEGHIERO, P. ROMANO, F. RUSSO, B. SACCO, N. SARTORE, J. SCHWARZ, A. SEGRETO, G. SIRONI, G. SOTTILE, E. STRAZZERI, L. STRINGHETTI, G. TAGLIAFERRI, V. TESTA, M.C. TIMPANARO, G. TOSO, G. TOSTI, M. TRIFOGLIO, S. VERCELLONE, V. ZITELLI (**THE ASTRI COLLABORATION**), L. ARRABITO, K. BERNLÖHR, G. MAIER, N. KOMIN AND **THE CTA CONSORTIUM** (2013). “Expected performance of the ASTRI SST-2M telescope prototype”. In: ‘Proc. 33rd ICRC-2013’, Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0564) (arXiv:1307.5006).
- [CP-94] G. PARESCHI, G. AGNETTA, L.A. ANTONELLI, D. BASTIERI, G. BELLASSAI, M. BELLUSO, C. BIGONGIARI, S. BILLOTTA, B. BIONDO, G. BONANNO, G. BONNOLI, P. BRUNO, A. BULGARELLI, R. CANESTRARI, M. CAPALBI, P. CARAVEO, A. CAROSI, E. CASCONI, O. CATALANO, M. CEREDA, P. CONCONI, V. CONFORTI, G. CUSUMANO, V. DE CAPRIO, A. DE LUCA, A. DI PAOLA, F. DI PIERRO, D. FANTINEL, M. FIORINI, D. FUGAZZA, D. GARDIOL, M. GHIGO, F. GIANOTTI, S. GIARRUSSO, E. GIRO, A. GRILLO, D. IMPIOMBATO, S. INCORVAIA,

A. LA BARBERA, N. LA PALOMBARA, V. LA PAROLA, G. LA ROSA, L. LESSIO, G. LETO, S. LOMBARDI, F. LUCARELLI, **M.C. MACCARONE**, G. MALAGUTI, G. MALASPINA, V. MANGANO, D. MARANO, E. MARTINETTI, R. MILLUL, T. MINEO, A. MISTÒ, C. MORELLO, G. MORLINO, M.R. PANZERA, G. RODEGHIERO, P. ROMANO, F. RUSSO, B. SACCO, N. SARTORE, J. SCHWARZ, A. SEGRETO, G. SIRONI, G. SOTTILE, A. STAMERRA, E. STRAZZERI, L. STRINGHETTI, G. TAGLIAFERRI, V. TESTA, M.C. TIMPANARO, G. TOSO, G. TOSTI, M. TRIFOGLIO, P. VALLANIA, S. VERCELLONE, V. ZITELLI, J. P. AMANS, C. BOISSON, C. COSTILLE, J. L. DOURNAUX, D. DUMAS, G. FASOLA, O. HERVET, J. M. HUET, P. LAPORTE, C. RULTEN, H. SOL, A. ZECH, R. WHITE, J. HINTON, D. ROSS, J. SYKES, S. OHM, J. SHMOLL, P. CHADWICK, T. GREENSHAW, M. DANIEL, G. COTTER, G. S. VARNER, S. FUNK, J. VANDERBROUCKE, L.SAPOZHNIKOV, J. BUCKLEY, P. MOORE, D. WILLIAMS, S. MARKOFF, J. VINK, D. BERGE, N. HIDAKA, A. OKUMURA, H. TAJIMA, FOR **THE CTA COLLABORATIONS** (2013). "The dual-mirror Small Size Telescope for the Chrenkov Telescope Array". In: 'Proc. 33rd ICRC-2013', Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0466) (arXiv:1307.4962).

- [CP-93] F. DI PIERRO, C. BIGONGIARI, C. MORELLO, A. STAMERRA, P. VALLANIA, G. AGNETTA, L.A. ANTONELLI, D. BASTIERI, G. BELLASSAI, M. BELLUSO, S. BILLOTTA, B. BIONDO, G. BONANNO, G. BONNOLI, P. BRUNO, A. BULGARELLI, R. CANESTRARI, M. CAPALBI, P. CARAVEO, A. CAROSI, E. CASCONI, O. CATALANO, M. CEREDA, P. CONCONI, V. CONFORTI, G. CUSUMANO, V. DE CAPRIO, A. DE LUCA, A. DI PAOLA, D. FANTINEL, M. FIORINI, D. FUGAZZA, D. GARDIOL, M. GHIGO, F. GIANOTTI, S. GIARRUSSO, E. GIRO, A. GRILLO, D. IMPIOMBATO, S. INCORVAIA, A. LA BARBERA, N. LA PALOMBARA, V. LA PAROLA, G. LA ROSA, L. LESSIO, G. LETO, S. LOMBARDI, F. LUCARELLI, **M.C. MACCARONE**, G. MALAGUTI, G. MALASPINA, V. MANGANO, D. MARANO, E. MARTINETTI, R. MILLUL, T. MINEO, A. MISTÒ, G. MORLINO, M.R. PANZERA, G. PARESCHI, G. RODEGHIERO, P. ROMANO, F. RUSSO, B. SACCO, N. SARTORE, J. SCHWARZ, A. SEGRETO, G. SIRONI, G. SOTTILE, E. STRAZZERI, L. STRINGHETTI, G. TAGLIAFERRI, V. TESTA, M.C. TIMPANARO, G. TOSO, G. TOSTI, M. TRIFOGLIO, S. VERCELLONE, V. ZITELLI (**THE ASTRI COLLABORATION**) AND **THE CTA CONSORTIUM** (2013). "Towards the ASTRI mini-array". In: 'Proc. 33rd ICRC-2013', Rio de Janeiro, Brasil, 2-9 July 2013 (CD-ROM id_0563) (arXiv:1307.3992).
- [CP-92] N. LA PALOMBARA, P. CARAVEO, M. FIORINI, L. STRINGHETTI, E. GIRO, O. CATALANO, **MACCARONE M.C.**, S. VERCELLONE, F. DI PIERRO, P. VALLANIA, G. BONNOLI, R. CANESTRARI, R. MILLUL, G. PARESCHI, G. TOSTI, ON BEHALF OF **THE ASTRI COLLABORATION** (2013). "The ASTRI Project: a mini array of dual-mirror small Cherenkov Telescopes for CTA". In: 'Proc. Rencontres de Moriond', La Thuile, Italy, 9-16 March 2013 (arXiv:1304.6559).
- [CP-91] S. VERCELLONE, O. CATALANO, **MACCARONE M.C.**, F. DI PIERRO, P. VALLANIA, G. BONNOLI, R. CANESTRARI, G. PARESCHI, P. CARAVEO, N. LA PALOMBARA, M. FIORINI, L. STRINGHETTI, E. GIRO, G. TOSTI, ON BEHALF OF **THE ASTRI COLLABORATION** (2013). "The ASTRI Project: prototype status and future plans for a Cherenkov dual-mirror small-telescope array". In: 'Proc. 4th Fermi Symposium', Monterey, CA, 28 Oct. – 2 Nov. 2012 (arXiv:1303.2024).
- [CP-90] **THE JEM-EUSO COLLABORATION** (2012). "The JEM-EUSO Mission: Status and Prospects in 2011". A set of 33 contributions of the JEM-EUSO Collaboration to the 32nd International Cosmic Ray Conference, In: 'Proc. 32nd ICRC-2011', Beijing, Rep. of China, (arXiv:1204.5065).
- [CP-89] **MACCARONE M.C.**, O. CATALANO, G. LA ROSA, A. SEGRETO (2011). "UVscope and its Possible Application for JEM-EUSO". In: 'Challenges in Cosmic Ray Sciences for the 21st Century – from Earth to the International Space Station and behind', M. Bertaina, M. Casolino, T. Ebisuzaki (Eds.), Universal Academy Press, Frontiers Science Series No. 57, pp.119-124.
- [CP-88] **ULTRA COLLABORATION**: AGNETTA G., P. ASSIS, B. BIONDO, P. BROGUEIRA, A. CAPPÀ, O. CATALANO, J. CHAUVIN, G. D'ALÌ STAITI, M. DATTOLI, M.C. ESPIRITO SANTO, L. FAVA, P. GALEOTTI, S. GIARRUSSO, G. GUGLIOTTA, G. LA ROSA, D. LEBRUN, **MACCARONE M.C.**, A. MANGANO, L. MELO, S. MOREGGIA, M. PIMENTA, F. RUSSO, O. SAAVEDRA, A. SEGRETO, J.C. SILVA, P. STASSI, B. TOMÉ, P. VALLANIA, C. VIGORITO (2011).

"ULTRA Experiment Results". In: 'Challenges in Cosmic Ray Sciences for the 21st Century – from Earth to the International Space Station and behind', M. Bertaina, M. Casolino, T. Ebisuzaki (Eds.), Universal Academy Press, Frontiers Science Series No. 57, pp.113-

- [CP-87] CUSUMANO, G, G. AGNETTA, P. ASSIS, B. BIONDO, P. BROGUEIRA, O. CATALANO, F. CELI, J. COSTA, C. DELGADO, M.C. ESPIRITO SANTO, S. GIARRUSSO, M. GOMEZ, A. LA BARBERA, G. LA ROSA, **MACCARONE M.C.**, A. MANGANO, T. MINEO, M. MOLES, M. PIMENTA, F. PRADA, F. RUSSO, B. SACCO, M.A. SANCHEZ, A. SEGRETO, B. TOMÉ, A. DE UGARTE POSTIGO, P. VALLANIA, C. VIGORITO (2011). "Characteristics and performance of GAW, Gamma Air Watch – a path-finder of a new generation of Imaging Atmospheric Cherenkov Telescope with large field of view". In: 'Proc. 32nd ICRC-2011', Beijing, Rep. of China, (CD-ROM, icrc1352). DOI: 10.7529/ICRC2011/V09/1352. EID: 2-s2.0-84899548674
- [CP-86] **MACCARONE M.C.**, O. CATALANO, S. GIARRUSSO, G. LA ROSA, A. SEGRETO, G. AGNETTA, B. BIONDO, A. MANGANO, F. RUSSO, S. BILLOTTA (2011). "Calibration and performance of the UVscope instrument". In: 'Proc. 32nd ICRC-2011', Beijing, Rep. of China, (CD-ROM, icrc0148). DOI:10.7529/ICRC2011/V03/0148 EID: 2-s2.0-84899535652
- [CP-85] **MACCARONE M.C.** (2011). "Livio, Vito and the Data Analysis in Astronomy Workshop Series", Invited lecture at the 7th DAA Int.nl Workshop "Science: Image in Action", Erice, Italy, April 2011 (http://www.iasf-palermo.inaf.it/~maccarone/InvitedLectures/Maccarone_DAA_2011.pdf)
- [CP-84] **MACCARONE M.C.** (2010). "Il mio cammino con Vito lungo le strade dell'analisi dati", Invited lecture at the "Giornata dedicata a Vito di Gesù. Un'ironica passeggiata tra architetture per calcolo scientifico, immagini e percezione", Palermo, 18 marzo 2010 (http://www.iasf-palermo.inaf.it/~maccarone/InvitedLectures/Maccarone_Memorie_Vito_18mar2010.pdf)
- [CP-83] O. CATALANO, G. LA ROSA, **MACCARONE M.C.**, A. SEGRETO, R. CARUSO, A. INSOLIA, (2009). "UVscope: an instrument for multi-wavelength study of the diffuse Night Sky Background light". In: 'Proc. 31st ICRC-2009', Lodz, Poland, (CD-ROM, icrc0373). EID: 2-s2.0-84899088153
- [CP-82] **THE JEM-EUSO COLLABORATION** (2009). "The JEM-EUSO Mission - Instrument". 21st ECRS, European Cosmic Ray Symposium, 9 - 12 September 2008, Kosice, Slovakia, ISBN 978-80-968060-5-8, pp.493-498
- [CP-81] **MACCARONE M.C.**, SACCO B., (2008). "Livio Scarsi in memoriam (1927-2006)". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, Vol.5 (HE part2) pp.1195-1198. (*INVITED PAPER*)
- [CP-80] TORRESI D., **MACCARONE M.C.**, B. SACCO (2008). "Air shower simulation with CORSIKA for the GAW experiment",. In: R. Barbera (Ed.), Consorzio COMETA, "Grid Open Days at the University of Palermo", p. 77-80, ISBN/ISSN: 978-88-95892-00-9.
- [CP-79] **ULTRA COLLABORATION**: AGNETTA G., P. ASSIS, B. BIONDO, P. BROGUEIRA, A. CAPPÀ, O. CATALANO, J. CHAUVIN, G. D'ALÌ STAITI, M. DATTOLI, M.C. ESPIRITO SANTO, L. FAVA, P. GALEOTTI, S. GIARRUSSO, G. GUGLIOTTA, G. LA ROSA, D. LEBRUN, **MACCARONE M.C.**, A. MANGANO, L. MELO, S. MOREGGIA, M. PIMENTA, F. RUSSO, O. SAAVEDRA, A. SEGRETO, J.C. SILVA, P. STASSI, B. TOMÉ, P. VALLANIA, C. VIGORITO (2008). "Detection of the Cherenkov light diffused by Sea Water with the ULTRA Experiment". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 4, HE part 1, p. 287-290. EID: 2-s2.0-84899551362.
- [CP-78] BERNLOHR K., E. CARMONA, T. SCHWEIZER, H. BARTKO, K. BERGER, C. BIGONGIARI, S.D. BILLER, C. CLAPSON, B. DEGRANGE, V. VAN ELDIK, S. FUNK, J.-F. GLICENSTEIN, G. HERMANN, J. HINTON, D. HORNS, T. JOGLER, B. KHELIFI, J. KNAPP, D. KRANICH, G. LAMANNA, **MACCARONE M.C.**, P. MAJUMDAR, A. MORALEJO, S. NOLAMI, M. PUNCH, M. RISSI, W. RHODE, S. ROSIER-LEES, S. SCHWARZBURG, D. SOBCHYZNSKA, J.-P. TAVERNET (The

CTA-MC Working Group, at 30th ICRC (2008). "MC Simulation and Layout Studies for a future Cherenkov Telescope Array". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 3 - OG part 2, p. 1469-1472.

- [CP-77] **MACCARONE M.C.**, P. ASSIS, O. CATALANO, G. CUSUMANO, P. GONCALVES, M. MOLES, M. PIMENTA, A. PINA, B. SACCO, B. TOMÉ (2008). "Expected Performance of the GAW Cherenkov Telescope". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 3 - OG part 2, p. 1297-1300. EID: 2-s2.0-84899503741.
- [CP-76] CUSUMANO, G, G. AGNETTA, A. ALBERDI, M. ALVAREZ, P. ASSIS, B. BIONDO, F. BOCCHINO, P. BROGUEIRA, J.A. CABALLERO, M. CARVAJAL, A.J. CASTRO-TIRADO, O. CATALANO, F. CELI, J. COSTA, C. DELGADO, G. DI COCCO, A. DOMINGUEZ, J.M. ESPINO NAVAS, M.C. ESPIRITO SANTO, M. GALLARDO, J.E. GARCIA, S. GIARRUSSO, M. GOMEZ, J.L. GOMEZ, M. GUERRIERO, A. LA BARBERA, G. LA ROSA, M. LOZANO, **MACCARONE M.C.**, A. MANGANO, I. MARTEL, E. MASSARO, T. MINEO, M. MOLES, A.M. MORO, F. PEREZ-BERNAL, M.A. PÉRES-TORRES, M. PIMENTA, F. PRADA, J.M. QUESADA, J.M. QUINTANA, J.R. QUINTERO, J. RODRIGUEZ, F. RUSSO, B. SACCO, M.A. SANCHEZ, A. SEGRETO, B. TOMÉ, A. DE UGARTE POSTIGO, P. VALLANIA (2008). "GAW – An Imaging Atmospheric Cherenkov Telescope with Large Field of View". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 3 - OG part 2, p. 1317-1320. EID: 2-s2.0-84899549558.
- [CP-75] **THE JEM-EUSO COLLABORATION** (2008). "Advancement of the wide-angle JEM-EUSO optical system with holographic and Fresnel lenses". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 5 - HE part 2, p. 1033-1036.
- [CP-74] **THE JEM-EUSO COLLABORATION** (2008). "The Focal Surface of the JEM-EUSO telescope". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 5 - HE part 2, p. 1037-1040.
- [CP-73] **THE JEM-EUSO COLLABORATION** (2008). "Instrument Overview of the JEM-EUSO Mission". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 5 - HE part 2, p. 1077-1080.
- [CP-72] **THE JEM-EUSO COLLABORATION** (2008). "The JEM-EUSO Mission". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 5 - HE part 2, p. 1045-1048.
- [CP-71] **THE JEM-EUSO COLLABORATION** (2008). " Science Objectives of JEM-EUSO mission on International Space Station ". In: R. Caballero, J.C. D'Olivo, G. Medina-Tanco, L. Nellen, F.A. Sánchez, J.F. Valdes-Galicia (Eds.), 'Proc. 30th ICRC-2007', UNAM, Mexico, vol. 5 - HE part 2, p. 1145-1148.
- [CP-70] CUSUMANO, G, G. AGNETTA, A. ALBERDI, M. ALVAREZ, P. ASSIS, B. BIONDO, F. BOCCHINO, P. BROGUEIRA, J.A. CABALLERO, M. CARVAJAL, A.J. CASTRO-TIRADO, O. CATALANO, F. CELI, C. DELGADO, G. DI COCCO, A. DOMINGUEZ, J.M. ESPINO NAVAS, M.C. ESPIRITO SANTO, M. GALLARDO, J.E. GARCIA, S. GIARRUSSO, M. GOMEZ, J.L. GOMEZ, P. GONCALVES, M. GUERRIERO, A. LA BARBERA, G. LA ROSA, M. LOZANO, **MACCARONE M.C.**, A. MANGANO, I. MARTEL, E. MASSARO, T. MINEO, M. MOLES, F. PEREZ-BERNAL, M.A. PÉRES-TORRES, M. PIMENTA, A. PINA, F. PRADA, J.M. QUESADA, J.M. QUINTANA, J.R. QUINTERO, J. RODRIGUEZ, F. RUSSO, B. SACCO, M.A. SANCHEZ-CONDE, A. SEGRETO, B. TOMÉ, A. DE UGARTE POSTIGO, P. VALLANIA (2007). "GAW - An Imaging Atmospheric Cherenkov Telescope with Large Field of View". In: A. Lionetto, A. Morselli (Eds.), 'Science with the New Generation of High Energy Experiments', Physics Series, vol.45, p.

297-304. (ISBN 978—88—86409—54—0). EID: 2-s2.0'84890012916

- [CP-69] MINEO T., G. CUSUMANO, G. AGNETTA, B. BIONDO, O. CATALANO, F. CELI, S. GIARRUSSO, A. LA BARBERA, G. LA ROSA, **MACCARONE M.C.**, A. MANGANO, F. RUSSO, B. SACCO, A. SEGRETO, G. DI COCCO, P. ASSIS, P. BROGUEIRA, J. COSTA, M.C. ESPIRITO SANTO, M. PIMENTA, B. TOMÉ, C. DELGADO, P. GALEOTTI, C. VIGORITO, M. MOLES, F. PRADA, M.A. SANCHEZ, A. DE UGARTE POSTIGO, P. VALLANIA (2006). "Gamma Air Watch (GAW) – An Imaging Atmospheric Cherenkov Telescope with Large Field of View". In: A. De Angelis, O. Mansutti (Eds.), 'High Energy Gamma-Ray Experiments', World Scientific, p. 75-82. DOI: 10.1142/9789812773548_0009, ISBN: 9789812773548.
- [CP-68] CUSUMANO, G, G. AGNETTA, A. ALBERDI, M. ALVAREZ, P. ASSIS, B. BIONDO, F. BOCCHINO, P. BROGUEIRA, J.A. CABALLERO, M. CARVAJAL, A.J. CASTRO-TIRADO, O. CATALANO, F. CELI, J. COSTA, C. DELGADO, G. DI COCCO, A. DOMINGUEZ, J.M. ESPINO NAVAS, M.C. ESPIRITO SANTO, M. GALLARDO, J.E. GARCIA, S. GIARRUSSO, M. GOMEZ, J.L. GOMEZ, M. GUERRIERO, A. LA BARBERA, G. LA ROSA, M. LOZANO, **MACCARONE M.C.**, A. MANGANO, I. MARTEL, E. MASSARO, T. MINEO, M. MOLES, A.M. MORO, F. PEREZ-BERNAL, M.A. PÉRES-TORRES, M. PIMENTA, F. PRADA, J.M. QUESADA, J.M. QUINTANA, J.R. QUINTERO, J. RODRIGUEZ, F. RUSSO, B. SACCO, M.A. SANCHEZ, A. SEGRETO, B. TOMÉ, A. DE UGARTE POSTIGO, P. VALLANIA (2006). "Characteristics and performance of the GAW experiment for a large field of view Cherenkov gamma-ray telescope". In: Proc. On Line 20th ECRS European Cosmic Rays Symposium, Lisbon, Portugal (<http://www.lip.pt/events/2006/ecrs/proc/>).
- [CP-67] AGNETTA G., P. ASSIS, B. BIONDO, P. BROGUEIRA, A. CAPPÀ, O. CATALANO, J. CHAUVIN, G. D'ALÌ STAITI, M. DATTOLI, M.C. ESPIRITO SANTO, L. FAVA, P. GALEOTTI, S. GIARRUSSO, G. GUGLIOTTA, G. LA ROSA, D. LEBRUN, **MACCARONE M.C.**, A. MANGANO, L. MELO, S. MOREGGIA, M. PIMENTA, F. RUSSO, O. SAAVEDRA, P. SCARSI, J.C. SILVA, P. STASSI, B. TOMÉ, P. VALLANIA, C. VIGORITO (2005). "Results from the ULTRA experiment in the framework of the EUSO project". In: B. Sripathi Acharaya, S. Gupta, P. Jagadeesan, A. Jain, S. Karthikeyan, S. Morris, S. Tonwar (Eds.), 'Proc. 29th ICRC', Tata Inst. Fundamental Research, Mumbai, India, p. 169-172. EID: 2-s2.0-84899005795
- [CP-66] CATALANO O., G. D'ALÌ STAITI, **MACCARONE M.C.**, S. BOTTAI, D. NAUMOV, M. PALLAVICINI, A. PETROLINI, R. PESCE, A. THEA, C. BERAT, S. MOREGGIA, A. STUTZ, J. DOLBEAU, E. PLAGNOL (2005). "Requirements and Simulation Study of EUSO as external Payload on board the International Space Station". In: B. Sripathi Acharaya, S. Gupta, P. Jagadeesan, A. Jain, S. Karthikeyan, S. Morris, S. Tonwar (Eds.), 'Proc. 29th ICRC', Tata Inst. Fundamental Research, Mumbai, India, vol. 8, p. 105-108. EID: 2-s2.0-84899010642
- [CP-65] **MACCARONE M.C.**, G. AGNETTA, P. ASSIS, B. BIONDO, P. BROGUEIRA, O. CATALANO, F. CELI, J. COSTA, G. CUSUMANO, C. DELGADO, G. DI COCCO, M.C. ESPIRITO SANTO, P. GALEOTTI, S. GIARRUSSO, A. LA BARBERA, G. LA ROSA, A. MANGANO, T. MINEO, M. MOLES, M. PIMENTA, F. PRADA, F. RUSSO, B. SACCO, M.A. SANCHEZ, A. SEGRETO, B. TOMÉ, A. DE UGARTE POSTIGO, P. VALLANIA, C. VIGORITO (2005). "GAW, Gamma Air Watch – A Large Field of View Imaging Atmospheric Cherenkov Telescope". In: B. Sripathi Acharaya, S. Gupta, P. Jagadeesan, A. Jain, S. Karthikeyan, S. Morris, S. Tonwar (Eds.), 'Proc. 29th ICRC', Tata Inst. Fundamental Research, Mumbai, India, vol. 8, p. 295-298. EID: 2-s2.0-84899011311
- [CP-64] THEA A., C. BERAT, S. BOTTAI, O. CATALANO, G. D'ALÌ STAITI, J. DOLBEAU, **MACCARONE M.C.**, S. MOREGGIA, D. NAUMOV, M. PALLAVICINI, R. PESCE, A. PETROLINI, E. PLAGNOL, A. STUTZ, E. TADDEI (2005). "The EUSO Simulation and Analysis Framework". In: B. Sripathi Acharaya, S. Gupta, P. Jagadeesan, A. Jain, S. Karthikeyan, S. Morris, S. Tonwar (Eds.), 'Proc. 29th ICRC', Tata Inst. Fundamental Research, Mumbai, India, vol. 8, p. 133-136. EID: 2-s2.0-84898933287.
- [CP-63] THEA A., C. BERAT, S. BOTTAI, O. CATALANO, G. D'ALÌ STAITI, J. DOLBEAU, **MACCARONE M.C.**, S. MOREGGIA,

- D. NAUMOV, M. PALLAVICINI, R. PESCE, A. PETROLINI, E. PLAGNOL, A. STUTZ, E. TADDEI (2005). "Simulation Study of a Space Based UHECR Detector". In: B. Sripathi Acharaya, S. Gupta, P. Jagadeesan, A. Jain, S. Karthikeyan, S. Morris, S. Tonwar (Eds.), 'Proc. 29th ICRC', Tata Inst. Fundamental Research, Mumbai, India, vol. 8, p. 129-132. EID: 2-s2.0-84898976443
- [CP-62] **MACCARONE M.C.**, G. D'ALÌ STAITI, S. BOTTAI, M. PALLAVICINI, A. THEA (2004). "The EUSO Data Simulation and Analysis Tree". In: F. Murtagh, G. Longo, J.-L. Starck, V. Di Gesù (Eds.), 'Proc. Astronomical Data Analysis III Conference', eWiC-BSC, Electronic Workshop in Computing, British Computer Society, http://www.bcs.org/upload/ewic_ada04_s2paper2.pdf
- [CP-61] BOTTAI S., G. D'ALÌ STAITI, **MACCARONE M.C.**, T. MINEO (2003). "Simulation and Data Analysis for EUSO". In: 'Proc. 28th ICRC Conference, Tsukuba, Japan, Universal Academy, vol. HE, pp.943-946.
- [CP-60] GIARRUSSO S., G. GUGLIOTTA, G. AGNETTA, P. ASSIS, B. BIONDO, O. CATALANO, F. CELI, G. CUSUMANO, G. D'ALÌ STAITI, R. DI RAFFAELE, M.C. ESPIRITO SANTO, M. GABRIELE, G. LA ROSA, **MACCARONE M.C.**, A. MANGANO, T. MINEO, M. PIMENTA, F. RUSSO, B. SACCO, A. SANTANGELO, L. SCARSI, B. TOMÉ (2003). "Measurements of the UV Nocturnal Atmospheric Background in the 300-400 nm Wavelengths Band with the Experiment BaBy during a Transmediterranean Balloon Flight". In: T. Kajita, Y. Asaoka, A. Kawachi, Y. Matsubara and M. Sasaki (Eds.), 'Proc. 28th ICRC Conference, Tsukuba, Japan, Universal Academy Press, vol. HE, p. 849-852.
- [CP-59] **MACCARONE M.C.**, O. CATALANO, A. SANTANGELO, L. SCARSI (2002). "EUSO, Extreme Universe Space Observatory: from raw data to scientific analysis". Proc. ESO-CERN-ESA Symposium on 'Astronomy, Cosmology and Fundamental Physics', P.A. Shaver, L. Di Lella, A. Gimenez (Eds.), Springer-Verlag, p. 465-466.
- [CP-58] CATALANO O., **MACCARONE M.C.**, A. SANTANGELO, L. SCARSI (2002). "EUSO, Extreme Universe Space Observatory". In: P.A. Shaver, L. Di Lella, A. Gimenez (Eds.), Proc. ESO-CERN-ESA Symposium on 'Astronomy, Cosmology and Fundamental Physics', P.A. Shaver, L. Di Lella, A. Gimenez (Eds.), Springer-Verlag, p. 427-428.
- [CP-57] CATALANO O., S. GIARRUSSO, **MACCARONE M.C.**, B. SACCO, L. SCARSI (2002). "Extreme Universe Space Observatory – EUSO". In: V.G. Gurzadyan, R.T. Jantzen, R. Ruffini (Eds.), 'Proc. Ninth Marcel Grossmann Meeting on General Relativity', World Scientific Publ., p.2401-2402. DOI: 10.1142/9789812777386_0593, ISBN: 978-981-238-010-4
- [CP-56] CUSUMANO G., G. AGNETTA, B. BIONDO, O. CATALANO, S. GIARRUSSO, G. GUGLIOTTA, A. LA BARBERA, L. LA FATA, **MACCARONE M.C.**, A. MANGANO, T. MINEO, F. RUSSO, B. SACCO (2002). "GAW – Gamma AirWatch: a novel imaging Cherenkov telescope". In: F. Giovannelli, L. Sabau-Graziati (Eds.), 'Multifrequency Behaviour of High Energy Cosmic Sources', Mem. S.A.It., 73, no.4, pp.1211-1215.
- [CP-55] CATALANO O., **MACCARONE M.C.**, B. SACCO, L. SCARSI (2001). "EUSO, Extreme Universe Space Observatory", In: K.H. Kampert, G. Hainzelmann, C. Spiering (Eds.), 'Proc. 27th ICRC Conference', Hamburg, Germany, Copernicus Gesellschaft, CD-ROM ici7083_p, Vol. HE, pp. 835-838.
- [CP-54] CUSUMANO G., G. AGNETTA, O. CATALANO, S. GIARRUSSO, G. GUGLIOTTA, **MACCARONE M.C.**, A. MANGANO, T. MINEO, B. BIONDO, F. RUSSO, B. SACCO (2001). "GAW – Gamma AirWatch: a novel imaging Cherenkov telescope". In: M. Simon, E. Lorenz, M. Pohl, (Eds.), 'Proc. 27th ICRC Conference', Hamburg, Germany, Copernicus Gesellschaft, CD-ROM ici6993_p, Vol. OG, pp. 2824-2826.
- [CP-53] GIARRUSSO S., G. AGNETTA, B. BIONDO, O. CATALANO, G. CUSUMANO, G. GUGLIOTTA, G. LA ROSA, **MACCARONE M.C.**, A. MANGANO, F. RUSSO, B. SACCO (2001). "Nocturnal atmospheric UV background measurements in the 300-400 nm wavelengths band with BaBy 2001, a transmediterranean balloon borne experiment", In: K.H. Kampert, G. Hainzelmann, C. Spiering (Eds.), 'Proc. 27th ICRC

Conference', Hamburg, Germany, Copernicus Gesellschaft, CD-ROM icc0307_p, HE, pp. 684-686.

- [CP-52] **MACCARONE M.C.**, T. MINEO (2001). "EUSO – Extreme Universe Space Observatory: ground data handling and outreach". In: K.H. Kampert, G. Hainzelmann, C. Spiering (Eds.), Proc. 27th ICRC', Copernicus Gesellschaft, CD-ROM ici7113_p, Vol. HE, pp. 852-855.
- [CP-51] SCARSI L., O. CATALANO, **MACCARONE M.C.**, B. SACCO (2001). "EUSO – Extreme Universe Space Observatory: doing astronomy looking downward the Earth atmosphere". In: K.H. Kampert, G. Hainzelmann, C. Spiering (Eds.), 'Proc. 27th ICRC Conference', Hamburg, Germany, Copernicus Gesellschaft, CD-ROM ici7085_p, Vol. HE, pp. 839-842.
- [CP-50] MINEO T., **MACCARONE M.C.**, A. PREITE-MARTINEZ, J. VINK, J.S. KAASTRA (2001). "Spatial distribution of spectral characteristics of Cas A". AIP Conf.Procs, vol. 599, Issue 1; p. 774-777.
- [CP-49] CATALANO O., G. D'ALÌ STAITI, S. GIARRUSSO, J. LINSLEY, **MACCARONE M.C.**, B. SACCO, L. SCARSI, P. SCARSI, Y. TAKAHASHI (2000). "GODS for EUSO: A Grand Observatory Deployed from the Space Station for the Extreme Universe Space Observation". In: T. Ebisuzaki, Y. Takahashi, T. Handa (Eds.), 'Space Factory on International Space Station', Tsukuba Japan, Universal Academy Press, pp.21-27. ISBN: 4-946443-62-2
- [CP-48] CUSUMANO G., **MACCARONE M.C.**, L. NICASTRO, B. SACCO, P. KAARET (2000). "SAX J0635+0533: Detection of 33.8 ms X-ray pulsations". In: M.L. McConnell & J.M. Ryan (Eds.), 'The Fifth Compton Symposium', AIP Conf. Series 510, pp.193-197.
- [CP-47] CUSUMANO G., **MACCARONE M.C.**, S. MASSAGLIA, E. MASSARO, T. MINEO, B. SACCO, E. TRUSSONI (2000). "A BeppoSAX Observation of PSR B1509-58 and MSH 15-52". In: S. Aiello, A. Blanco (Eds), 'What are the Prospects for Cosmic Physics in Italy?', SIF Conf. Publ., Vol.68.
- [CP-46] **MACCARONE M.C.**, O. CATALANO, S. GIARRUSSO, B. SACCO (1999). "Track Reconstruction in Imaging Fluorescence Signals Induced by Extreme Cosmic Ray Particles". In: D. Kieda, M. Salamon, B. Dingus (Eds.), 'Proc. 26th ICRC', Salt Lake City, Utah, Vol.5, 445.
- [CP-45] SACCO B., O. CATALANO, **MACCARONE M.C.**, L. SCARSI, M. VIETRI (1999). "OWL-AIRWATCH: Search for correlation between Gamma Ray Bursts and Extreme Energy Neutrinos". In: D. Kieda, M. Salamon, B. Dingus (Eds.), 'Proc. 26th ICRC', Salt Lake City, Utah, Vol.2, 392.
- [CP-44] CATALANO O., **MACCARONE M.C.**, S. GIARRUSSO, G. LA ROSA (1998). "AIRWATCH: On board read-out and data-handling". In: O.H.W. Siegmund and M.A. Gummin, (Eds.), 'EUV, X-Ray, and Gamma-Ray Instrumentation for Astronomy IX', SPIE Proc. Vol.3445, pp.478-485. EID:2-s2.0-0032301137
- [CP-43] CATALANO, O., GIARRUSSO, S., LA ROSA, G., LINSLEY, J., **M.C. MACCARONE**, SACCO, B., SCARSI, L. (1998). "AirWatch /OWL: a space mission to explore Extremely High Cosmic Ray radiation", CD-ROM Proc. 19th Texas Symposium, Paris, France, December 1998 (Eds.: J. Paul, T. Montmerle, and E. Aubourg, CEA Saclay).
- [CP-42] GIARRUSSO, S., CATALANO, O., LA ROSA, G., LINSLEY, J., **M.C. MACCARONE**, SACCO, B., SCARSI, L. (1998). "AirWatch/OWL: preliminary results from lab measurements and from balloon background observations", CD-ROM Proc. 19th Texas Symposium, Paris, France, December 1998 (Eds.: J. Paul, T. Montmerle, and E. Aubourg, CEA Saclay).
- [CP-41] CUSUMANO G., **MACCARONE M.C.**, T. MINEO, A. SEGRETO, B. SACCO, E. MASSARO, L. NICASTRO (1998). "Observation of the Crab Pulsar with BeppoSAX: phase resolved spectroscopy and study of the pulsar profile". In: J. Andersen (Ed.), 'Highlights of Astronomy', 23rd IAU General Assembly 1997, Kluwer Acad. Publ., Vol.11 B, pp.380.

- [CP-40] DI GESÙ V., **MACCARONE M.C.** (1998). "Solving Image Analysis Problems with Fuzzy Sets", Proc. of SOFT-COMP-98, Workshop on Soft Computing & Intelligent Systems, Calcutta, India, pp.156-169.
- [CP-39] CONTI G., L. CHIAPPETTI, S. MOLENDI, B. SACCO, G. CUSUMANO, G. LA ROSA, **MACCARONE M.C.**, T. MINEO, G. BOELLA, O. CITTERIO (1997). "In-flight performances of grazing incidence X-ray optics on board the X-ray astronomy satellite BeppoSAX". In: 'Astronomical Optics, Sensors, and Missions - Grazing Incidence and Multilayer X-Ray Optical Systems', R.B. Hoover and A.B. Walker (Eds.), SPIE Proceedings, Vol. 3113, p. 394-403. DOI: 10.1117/12.278870. EID: 2-s2.0-0042670978
- [CP-38] **MACCARONE M.C.** (1997). "The CCMA Scientific Network: three years activity report". In: M.C. Maccarone, F. Murtagh, M. Kurtz, A. Bijaoui, (Eds.), 'Advanced Techniques and Methods for Astronomical Information Handling', Publ. by Observatoire de la Côte d'Azur, France, pp. 9-20.
- [CP-37] SACCO B., G. CUSUMANO, S. DEL SORDO, G. LA ROSA, **MACCARONE M.C.**, T. MINEO, L. CHIAPPETTI, G. CONTI, S. MOLENDI, D. RICCI (1997). "The Medium Energy Experiment MECS on board BeppoSAX Observatory: Data Analysis and First Results". In: V. Di Gesù, M.J.B. Duff, A. Heck, M.C. Maccarone, L. Scarsi, H.U. Zimmermann (Eds.), 'Data Analysis in Astronomy V', World Scientific Publishing., pp.133-141. (Invited Paper). ISBN: 981-02-3171-7
- [CP-36] DI GESÙ V., **MACCARONE M.C.** (1997). "A Fuzzy Approach to Compute the Medial Axis of Gray Level Images". In: 'Proc. 7th IFSA World Congress', Prague, Czech Republic, pp.221-226.
- [CP-35] MOLENDI S., L. CHIAPPETTI, G. CUSUMANO, D. DAL FIUME, F. FIORE, F. FRONTERA, P. GIOMMI, M. GUAINAZZI, **MACCARONE M.C.**, T. MINEO, G.C. PEROLA, L. PIRO, D. RICCI, B. SACCO (1997). "First Results from the MECS on board BeppoSAX". Mem.S.A.It., vol. 68; pp. 113-118.
- [CP-34] **MACCARONE M.C.**, F. MURTAGH, A. BIJAQUI (1996). "CCMA/ESF: The European Scientific Network on Converging Computing Methodologies in Astronomy". In: G.H. Jacoby and J. Barnes, (Eds.), 'Astronomical Data Analysis Software and Systems V', AIP Conf. Series, Vol.101, pp.573-576.
- [CP-33] **MACCARONE M.C.** (1996). "The SAX Scientific Software". In: G.H. Jacoby and J. Barnes, (Eds.), 'Astronomical Data Analysis Software and Systems V', AIP Conf. Series, 101, pp.244-247.
- [CP-32] MOLENDI S., L. CHIAPPETTI, G. BOELLA, G. CONTI, G. CUSUMANO, S. DEL SORDO, G. LA ROSA, **MACCARONE M.C.**, S. RE, B. SACCO, M. TRIPICIANO (1996). "Ground Calibrations of the Medium Energy Experiment on board the X-ray Astronomy Satellite SAX". In: H.U. Zimmermann, J. E. Trümper, and H. Yorke, (Eds.), 'Röntgenstrahlung from the Universe', MPE Report 263, pp.685-686.
- [CP-31] SACCO B., G. AGNETTA, B. BIONDO, O. CATALANO, R. DI RAFFAELE, **MACCARONE M.C.**, A. MANGANO, L. SCARSI, E. COSTA, G. DI PERSIO, B. MARTINO, M. MASTROPIETRO, G. MATT, G. NATALI, A. RUBINI, G. GERARDI, E. MASSARO, G. MEDICI, E. MORELLI, R. COSENTINO (1995). "FIGARO IV: A Balloon-Borne Large Area Gamma-Ray Telescope (above 100 MeV) based on LST Technology", Proc. 1st Symp. Stratospheric Balloons, Oct. 1994, El Aresonillo, Huelva, Spain, INTA Pub., ISBN 84-606-2430-7.
- [CP-30] SACCO B., O. CATALANO, **MACCARONE M.C.**, G. GERARDI, E. COSTA, E. MASSARO, E. MORELLI (1995). "Imaging performance of FIGARO-IV, a large area gamma-ray telescope above 100 MeV". In: L. BASSANI AND G. DI COCCO, (Eds.), 'Imaging in High Energy Astronomy', Kluwer Academic Publishers, 301-304. Part of ISBN: 0-7923-3788-3
- [CP-29] BOELLA G., L. CHIAPPETTI, G. CONTI, S. MOLENDI, G. CUSUMANO, S. DEL SORDO, G. LA ROSA, **MACCARONE M.C.**, S. RE, B. SACCO, M. TRIPICIANO, H. BRAUNINGER, W. BURKERT (1995). "Medium Energy Concentrator Spectrometer on board the X-ray Astronomy Satellite SAX. Preliminary results of ground X-ray calibrations". In: 'X-Ray and EUV/FUV Spectroscopy and Polarimetry', SPIE Conf. Proceedings, Vol. 2517, pp. 223-233. EID: 2-s2.0-0029454175

- [CP-28] **MACCARONE M.C.**, V. DI GESÙ, M. TRIPICIANO (1995). "An Algorithm to Compute Medial Axis of Fuzzy Images". In: G. Borgerfors (Ed.), 'Proc. 9th SCIA, Scandinavian Conference on Image Analysis', Uppsala, Sweden, Swedish Society for Automated Image Analysis, Vol.1, pp.525-532.
- [CP-27] BUCCHERI R., **MACCARONE M.C.**, J.R. MATTOX, D.J. THOMPSON, G. KANBACH, U. CAMERINI, W.F. FRY (1994). "A search for high energy gamma bursts in the EGRET data utilizing space-time correlation". In: G.J. Fishman, J.J. Brainerd, K. Hurley (Eds.), 'Gamma-Ray Bursts - Second Workshop - Huntsville, Al October 1993', AIP Conf. Proceedings No.307, New York, pp.377-381.
- [CP-26] SACCO B., B. AGRINIER, G. AGNETTA, B. BIONDO, O. CATALANO, M.N. CINTI, E. COSTA, G. CUSUMANO, N. D'AMICO, G. D'ALÌ, R. DI RAFFAELE, G. GERARDI, M. GROS, J.M. LAVIGNE, **MACCARONE M.C.**, A. MANGANO, B. MARTINO, J.L. MASNOU, E. MASSARO, G. MATT, G. MEDICI, T. MINEO, E. MORELLI, G. NATALI, L. NICASTRO, F. PEDICHINI, A. RUBINI, L. SCARSI, M. TRIPICIANO (1993). "FIGARO IV: 16 Square Meter Balloon Borne Telescope to Study Rapid Variabilities and Transient Phenomena at Energies Above 50 MeV". In: M. Friedlander, N. Gehrels, D.J. Macomb, (Eds.), 'Compton Gamma-Ray Observatory - St. Louis, Mo 1992', AIP Conf. Proceedings No.280, New York, pp.1161-1165. DOI: 10.1063/1.44148, part of ISBN: 1-56396-104-0
- [CP-25] **MACCARONE M.C.**, B. SACCO, L. CHIAPPETTI, D. DAL FIUME, M. TRIFOGLIO, L. PIRO, P. UBERTINI, G.C. PEROLA, J. HEISE, A. PARMAR (1992). "BASS: Basic Scientific Software for SAX". In: D.M. Worrall, C. Biemesderfer, J. Barnes, (Eds.), 'Astronomical Data Analysis Software and Systems I', AIP Conference Series, Vol.25, pp.151-153.
- [CP-24] BUCCHERI R., M. Busetta, **MACCARONE M.C.** (1992). "SAST - A Software Package for Statistical Analysis of Sparse Times". In: V. DI GESÙ, L. SCARSI, R. BUCCHERI, P. CRANE, M.C. MACCARONE, H.U. ZIMMERMANN, (Eds.), 'Data Analysis in Astronomy IV', Plenum Press, pp. 51-57.
- [CP-23] **MACCARONE M.C.**, M. TRIPICIANO, V. DI GESÙ (1992). "Fuzzy Mathematical Morphology to Analyse Astronomical Images", Proc. 11th IAPR Int. Conf. on Pattern Recognition, Vol.III, pp.248-251.
- [CP-22] DI GESÙ V., **MACCARONE M.C.**, M. TRIPICIANO (1991). "MMFUZZY: Mathematical Morphology based on Fuzzy Operators". In: R. Lowen and M. Roubens, (Eds.), 'Proc. IFSA '91', International Fuzzy Systems Assoc. World Congress, Vrije Universiteit, Brussels, Belgium, Vol.'Engineering', pp.29-32.
- [CP-21] **MACCARONE M.C.**, M. TRIPICIANO (1991). "Image Analysis Context Development in ESO/MIDAS Environment at the IFCAI-CNR". In: P.J. Grosbol and R.H. Warmels, (Eds.), 'Proc. 3-rd ESO/ST-ECF Data Analysis Workshop', Garching, Germany, ESO Conf. and Workshop Procs No. 38, pp.89-93.
- [CP-20] DI GESÙ V., **MACCARONE M.C.**, D. PONZ, D. TEGOLO, M. TRIPICIANO (1990). "Pictorial Information Retrieval with Uncertain Knowledge". In: V. CANTONI, L.P. CORDELLA, S. LEVIALDI, G. SANNITI DI BAJA (Eds.), 'Progress in Image Analysis and Processing', World Publishing Corp., pp. 583-589.
- [CP-19] **MACCARONE M.C.**, R. BUCCHERI (1989). "Decision Problems in the Search for Periodicities in Sparse Data". In: V. DI GESÙ, L. SCARSI, P. CRANE, J.H. FRIEDMAN, S. LEVIALDI, M.C. MACCARONE, (Eds.), 'Data Analysis in Astronomy III', Plenum Press, pp. 237-244. DOI: 10.1007/978-1-4684-5646-2_26. ISBN: 978-1-4684-5648-6
- [CP-18] DI GESÙ V., **MACCARONE M.C.** (1988). "An Approach to Random Images Analysis". In: V. Cantoni, V. Di Gesù, S. Levialdi (Eds.), 'Image Analysis and Processing II', Plenum Press, New York, pp.111-118. DOI: 10.1007/978-1-4613-1007-5_10, ISBN: 978-1-4612-8289-1
- [CP-17] **MACCARONE M.C.**, R. BUCCHERI (1988). "Search for Periodicity in Gamma-Ray Astronomy: Towards a Decision Support System", Proc. 12th I.M.A.C.S. World Congress on Scientific Computation, Paris, France, vol.2 pp.322-324.

- [CP-16] **MACCARONE M.C.**, N. ROBBA, O. DI ROSA (1988). "A Support Environment in the X-Ray Astronomical Data Analysis: Some Preliminaries". In: F. Murtagh and A. Heck, (Eds.), 'Astronomy from Large Databases. Scientific Objectives and Methodological Approaches', ESO Conf. and Workshop Proc. No. 28, pp. 383-388.
- [CP-15] BUCCHERI R., V. DI GESÙ, **MACCARONE M.C.**, B. SACCO (1987). "Study of Microstructures in the Gamma-Ray Light Curves of the Crab and Vela Pulsars", Proc. 20th ICRC, Moscow, USSR, vol.1, pp.70-73.
- [CP-14] BUCCHERI R., V. DI GESÙ, **MACCARONE M.C.**, B. SACCO (1987). "Application of Cluster Analysis to Astronomical Data", Proc. III Convegno Naz. di Fisica Cosmica GIFCO/CNR, pp.243-247.
- [CP-13] **MACCARONE M.C.**, R. BUCCHERI, V. DI GESÙ (1986). "Multivariate Cluster Analysis of Radio Pulsars Data". In: V. DI GESÙ, L. SCARSI, P. CRANE, J.H. FRIEDMAN, S. LEVIALDI, (EDS.), 'Data Analysis in Astronomy II', Plenum Press, New York, pp.97-107. ISBN: 0-306-42473-8
- [CP-12] DI GESÙ V., **MACCARONE M.C.** (1986). "Description of Fuzzy Images by Convex Hull Technique", Proc. 2-nd Int. Conf. on Pattern Rec. ICPR, Paris, France, pp.1276-1278. EID: 2-s2.0-0023015746
- [CP-11] **MACCARONE M.C.**, C. OUNNAS (1985). "G.K.S.: Principles, Implementation, Utilization", in 'ASTRONET 1984-85', G. Sedmak (Ed.), pp.153-164.
- [CP-10] DI GESÙ V., **MACCARONE M.C.** (1985). "A Hierarchical Approach to Classify and Describe Fuzzy Objects", Proc. 1st Int. Fuzzy System Association Conf. IFSA, Palma de Mallorca, Spain.
- [CP-9] DI GESÙ V., **MACCARONE M.C.** (1984). "A Method to Classify Spread Shapes based on the Possibility Theory", Proc. 7th Int. Conf. on Pattern Recognition ICPR, Montreal, Canada, Vol.2, pp.869-871. EID: 2-s2.0-0021586081
- [CP-8] DI GESÙ V., **MACCARONE M.C.** (1983). "A Method to Classify Celestial Objects Shapes based on the Possibility Theory", in 'ASTRONET 83', G.Sedmak (Ed.), pp.355-363.
- [CP-7] DI GESÙ V., **MACCARONE M.C.** (1983). "An Application of the Possibility Theory to Discriminant Analysis", 6th Int. Symposium of Multivariate Analysis, Pittsburgh, USA, July 25-29, 1983.
- [CP-6] DI GESÙ V., **MACCARONE M.C.** (1982). "Un metodo diretto di deconvoluzione per l'analisi di immagini bidimensionali". Proc. Primo Convegno Naz. di Fisica Cosmica GIFCO/CNR, Lecce, Italy, pp.301-314.
- [CP-5] DI GESÙ V., **MACCARONE M.C.** (1982). "A Direct Deconvolution Method for Two-Dimensional Images Analysis". Mem.S.A.It., vol. 53; p. 279-286. In Orcid l'ho identificato come journal-article !!!
- [CP-4] DI GESÙ V., **MACCARONE M.C.** (1982). "A Direct Deconvolution Method for Two-Dimensional Images Analysis", Proc. COMPSTAT 82, Toulouse, France, pp.75-76.
- [CP-3] BRAI M., **MACCARONE M.C.**, A. MACHÌ, S. VITALE (1980). "Livelli attesi di radioattività in ambiente marino per scarichi da medicina nucleare nel Golfo di Palermo", Proc. XXII Congresso Nazionale A.I.R.P., Venezia, Italy, pp.247-259.
- [CP-2] DI GESÙ V., **MACCARONE M.C.** (1980). "An Automatic System for the Monitoring of the Palermo Gulf Radioactive Pollution", Proc. MEDINFO '80, Tokyo, Japan, Vol.2, pp.940-942.
- [CP-1] DI GESÙ V., **MACCARONE M.C.**, G. PERNICE (1979). "Un metodo di correlazione per l'analisi di spettri gamma di miscele di radioisotopi in soluzione acquosa", Proc. XXI Congresso Naz. AIRP, Palermo, Italy, Vol.II, pp.597-607.



[ED] Editorial Work (Curatele)

- [ED-6] CARUSO, R., A. INSOLIA, **MACCARONE M.C.**, V. PIRRONELLO (EDS.) (2011). "100 years of Cosmic Ray Physics: from pioneering experiments to physics in space.", Procs. of the Cosmic Ray Int.nal Seminars (CRIS 2010), Nuclear Physics B, Vol. 212-213, pp.1-392, March-April 2011. DOI: 10.1016/j.nuclphysbps.2011.03.001.
- [ED-5] DI GESÙ V., G. LO BOSCO, **MACCARONE M.C.** (EDS.) (2007). "Data Analysis in Astronomy VI – Modeling and Simulation in Science", World Sci Publ, Singapore, ISBN:13-978-981-277-944-1
- [ED-4] **MACCARONE M.C.**, F. MURTAGH, M. KURTZ, A. BIJAQUI (EDS) (1997). "Advanced Techniques and Methods for Astronomical Information Handling". Procs. of "Converging Computing Methodologies in Astronomy, CCMA. European Science Foundation ESF Network", Sonthofen, Germany, 17-18 September 1997. Published by Observatoire de la Côte d'Azur, Nice, France . ISBN/ISSN/EAN OCN 715772908
- [ED-3] DI GESÙ V., M.J.B. DUFF, A. HECK, **MACCARONE M.C.**, L. SCARSI, H.U. ZIMMERMANN (EDS.) (1997). "Data Analysis in Astronomy V", World Scientific Publishing, Singapore, ISBN: 981-02-3171-7.
- [ED-2] DI GESÙ V., L. SCARSI, R. BUCCHERI, P. CRANE, **MACCARONE M.C.**, H.U. ZIMMERMANN (EDS.) (1992). "Data Analysis in Astronomy IV", Ettore Majorana Int. Sci. Ser., Phys. Sci., Vol. 59, Plenum Press, New York, ISBN: 0-306-44106-3
- [ED-1] DI GESÙ V., L. SCARSI, R. BUCCHERI, P. CRANE, J.H. FRIEDMAN, S. LEVIALDI, **MACCARONE M.C.** (EDS.) (1989). "Data Analysis in Astronomy III", Ettore Majorana Int. Sci. Ser., Phys. Sci., Vol. 40, Plenum Press, New York, ISBN: 0-306-431580

