

Bibliografia Esperimento Apollo

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International journals

1. F. Giuliani, N. Delmonte, P. Cova, R. Menozzi, “Temperature-dependent reverse-bias stress of normally-off GaN power FETs”, *Microelectronics Reliability*, vol. 53, pp. 1486-1490, 2013. ISSN: 0026-2714. doi: 10.1016/j.microrel.2013.07.068, Scopus: 2-s2.0-84886890799.
2. N. Delmonte, F. Giuliani, P. Cova, “Finite element modeling and characterization of lead-free solder joints fatigue life during power cycling of surface mounting power devices”, *Microelectronics Reliability*, vol. 53, pp. 1611-1616, 2013. ISSN: 0026-2714, doi: 10.1016/j.microrel.2013.06.021, Scopus: 2-s2.0-84886923504.
3. P. Cova, N. Delmonte, F. Giuliani, M. Citterio, S. Latorre, M. Lazzaroni, A. Lanza, “Thermal optimization of water heat sink for power converters with tight thermal constraints”, *Microelectronics Reliability*, vol. 53, pp. 1760-1765, 2013. ISSN: 0026-2714. doi: 10.1016/j.microrel.2013.07.035, Scopus: 2-s2.0-84886908592.
4. Busatto, G., De Luca, V., Iannuzzo, F., Sanseverino, A., Velardi, F., Single-Event Effects in Power MOSFETs During Heavy Ion Irradiations Performed After Gamma-Ray Degradation, *Nuclear Science, IEEE Transactions on*, Volume:60, Issue: 5, Issue Date: Oct. 2013, Page(s): 3793 – 3801, Digital Object Identifier :10.1109/TNS.2013.2278038, ISSN :0018-9499.
5. S. Baccaro, P. Cova, N. Delmonte, E. Ghisolfi, A. Lanza, “A soft magnetic material for power supply systems of high energy physics experiments”, *European Physical Journal Web of Conferences*, vol. 40, 17005-p.1-p.4, 2013. ISSN: 2100-014X, doi: 10.1051/epjconf/20134017005, Scopus: 2-s2.0-84872730377.
6. S. Baccaro, G. Busatto, M. Citterio, P. Cova, N. Delmonte, F. Iannuzzo, A. Lanza, M. Riva, A. Sanseverino, G. Spiazzi, “Reliability oriented design of power supplies for high energy physics applications”, *Microelectronics Reliability*, vol. 52, pp. 2465-2470, 2012. ISSN: 0026-2714. doi: 10.1016/j.microrel.2012.06.088, Scopus: 2-s2.0-84866734239, WOS:000309785400138.
7. P. Cova, N. Delmonte, “Thermal modeling and design of power converters with tight thermal constraints”, *Microelectronics Reliability*, vol. 52, pp. 2391-2396, 2012. ISSN: 0026-2714. doi: 10.1016/j.microrel.2012.06.102, Scopus: 2-s2.0-84866738848, WOS:000309785400124.
8. M. Alderighi, M. Citterio, M. Riva, S. Latorre, A. Costabeber, A. Paccagnella, F. Sichirollo, G. Spiazzi, M. Stellini, P. Tenti, P. Cova, N. Delmonte, A. Lanza, M. Bernardoni, R. Menozzi, S. Baccaro, F. Iannuzzo, A. Sanseverino, G. Busatto, V. De Luca, F. Velardi, “Power converters for future LHC experiments”, *Journal of Instrumentation*, vol. 7, C03012, 2012. ISSN: 1748-0221. doi: 10.1088/1748-0221/7/03/C03012. Scopus: 2-s2.0-84858791721, WOS:000304015300012.

International conferences

1. M. Lazzaroni, M. Citterio, S. Latorre, A. Lanza, P. Cova, N. Delmonte, F. Giuliani, “Power supply system for the ATLAS experiment: design specifications, implementation, test and first results”, Proc. *14th ICATTP Conference on Astroparticle, Particle, Space Physics and Detectors for Physics Applications: Experimental particle physics, detection of astrophysical sources and cosmic rays as tools for probing the contents of the Universe (ICATTP 2013)*, Villa Olmo, Como (Italy), Sep. 23-27, 2013. Submitted for publication in WSPC 2014.
2. S. Fiore, C. Abbate, S. Baccaro, G. Busatto, M. Citterio, F. Iannuzzo, A. Lanza, S. Latorre, M. Lazzaroni, A. Sanseverino, F. Velardi, *Radiation and magnetic field effects on new semiconductor power devices for HL-LHC experiments*, ArXiv, Data di pubblicazione: 2013-10, Pages(s): 5, Publication state: in press, Proceedings of the International conference on advanced technology and particle physics (ICATTP 2013), Villa Olmo, Como (Italy), Year: 2013, 23-27 September 2013. Congress number: 14, Publisher: World Scientific, URL: <http://arxiv.org/abs/1310.1902>. In press.

3. C. Abbate, M. Alderighi, S. Baccaro, G. Busatto, M. Citterio, P. Cova, N. Delmonte, V. De Luca, S. Gerardin, E. Ghisolfi, F. Giuliani, F. Iannuzzo, A. Lanza, S. Latorre, M. Lazzaroni, A. Paccagnella, M. Riva, A. Sanseverino, G. Spiazzi, F. Velardi “Developments on DC/DC converters for the LHC experiment upgrades”, Proc. *TWEPP 2013 - Topical Workshop on Electronics for Particle Physics*, Perugia (Italy), Sep. 23-27, 2013. Submitted for publication in JINST 2014.
4. C. Abbate, M. Alderighi, S. Baccaro, G. Busatto, M. Citterio, P. Cova, N. Delmonte, V. De Luca, S. Gerardin, E. Ghisolfi, F. Giuliani, F. Iannuzzo, A. Lanza, S. Latorre, M. Lazzaroni, G. Meneghesso, A. Paccagnella, F. Rampazzo, M. Riva, A. Sanseverino, R. Silvestri, G. Spiazzi, F. Velardi, E. Zanoni, “Radiation performance of new silicon devices for the LHC experiment upgrades”, Proc. *11th International Conference on Large Scale Application and Radiation Hardness of Semiconductor Detectors*, Florence, Italy, Jul. 3-5, 2013. Submitted for publication in PoS.
5. P. Cova, N. Delmonte, F. Giuliani, M. Citterio, S. La Torre, A. Lanza, M. Lazzaroni, “Thermal modeling and characterization of power converters for LHC power supplies”, Proc. *12th IMEKO TC10 Workshop on Technical Diagnostics - New Perspectives in Measurements, Tools and Techniques for Industrial Applications*, pp. 202-207, Firenze (Italy), Jun. 6-7, 2013. ISBN: 978-88-903149-8-8, Scopus: 2-s2.0-84881560100. Submitted for publication in ACTA IMEKO JOURNAL 2014.
6. G. Busatto, V. De Luca, F. Iannuzzo, A. Sanseverino, F. Velardi, Single Event Effects in Power MOSFETs during Heavy Ions Irradiations performed after γ -Ray degradation, NSREC, 2012, Miami, USA.
7. M. Citterio, M. Alderighi, S. Latorre, M. Riva, P. Cova, N. Delmonte, A. Lanza, M. Bernardoni, R. Menozzi, A. Costabeber, A. Paccagnella, F. Sichirollo, G. Spiazzi, M. Stellini, P. Tenti, S. Baccaro, F. Iannuzzo, A. Sanseverino, G. Busatto, V. De Luca, “Energy distribution in hostile environment: power converters and devices”, presented at *13th International Conference on Astroparticle, Particle, Space Physics and Detectors for Physics Applications (ICATPP 2011)*, Villa Olmo, Como (Italy), Oct. 3-7, 2011.
8. M. Alderighi, M. Citterio, S. Latorre, M. Riva, P. Cova, N. Delmonte, A. Lanza, M. Bernardoni, R. Menozzi, A. Costabeber, A. Paccagnella, F. Sichirollo, G. Spiazzi, M. Stellini, P. Tenti, S. Baccaro, F. Iannuzzo, A. Sanseverino, G. Busatto, V. De Luca, “Power distribution architecture for high energy physic hostile environment”, Proc. *13th International Conference on Astroparticle, Particle, Space Physics and Detectors for Physics Applications (ICATPP 2011)*, pp. 890-894, Villa Olmo, Como (Italy), Oct. 3-7, 2011. ISBN: 978-981-4405-06-5.
9. Stefania Baccaro, Enrica Ghisolfi, Loredana Mannarino, Andrea Morici, Radiation damage in soft ferromagnetic materials for enhanced inductor cores operating in extreme environments, Proc. *13th International Conference on Astroparticle, Particle, Space Physics and Detectors for Physics Applications (ICATPP 2011)*, pp. 880-884, Villa Olmo, Como (Italy), Oct. 3-7, 2011. ISBN: 978-981-4405-06-5.
10. M. Alderighi, M. Citterio, M. Riva, P. Cova, N. Delmonte, A. Lanza, R. Menozzi, A. Paccagnella, F. Sichirollo, G. Spiazzi, M. Stellini, S. Baccaro, F. Iannuzzo, A. Sanseverino, G. Busatto, V. De Luca, “Power Distribution for the LAr calorimeters for the HiLHC”, presented at *SLAr Electronics Meeting at LAr week*, Ginevra (CH), Dec. 6, 2011.

National journals

National conferences

1. M. Lazzaroni, M. Citterio, S. Latorre, A. Lanza, P. Cova, N. Delmonte, F. Giuliani, “Ottimizzazione termica di dissipatori per convertitori di potenza per applicazioni in ambienti ostili”, Atti del *XXX Congresso Nazionale Associazione “Gruppo Misure Elettriche ed Elettroniche” (GMEE 2013)*, pp. 123-124, Trento (Italy), Sep. 8-11, 2013. ISBN: 978-88-8443-496-8.
2. A. Lanza, M. Alderighi, M. Citterio, M. Riva, P. Cova, N. Delmonte, R. Menozzi, A. Paccagnella, F. Sichirollo, G. Spiazzi, M. Stellini, S. Baccaro, F. Iannuzzo, A. Sanseverino, G. Busatto, V. De Luca, “The Apollo project: LV power supplies for the next high energy physics experiments”, Workshop *Reliable Electronics For Radiation Environment*, Milano (Italy), Oct. 19, 2011.

Technical Notes

Web

1. <http://www2.pv.infn.it/~servel/apollo/index.html>.