

# **LIST OF CONTRIBUTIONS TO NATIONAL AND INTERNATIONAL CONGRESSES 2023**

1. Rafí JM., Pellegrini G., Godignon P., Rius G., Dauderys V., Tsunoda I., Yoneoka M., Takakura K., Kramberger G. and Moll M.  
**Thermal Annealing of Electron, Neutron and Proton Irradiation Effects on SiC Radiation Detectors**  
**Workshop on Radiation hard semiconductor devices for very high luminosity colliders**  
**Internacional, November 2023, Geneve (Switzerland), Oral, International**
2. Rafí JM., Pellegrini G., Godignon P., Rius G., Dauderys V., Tsunoda I., Yoneoka M., Takakura K., Kramberger G. and Moll M.  
**Radiation Effects in Silicon Carbide Radiation Detectors.**  
**14th Spanish Conference on Electron Devices (CDE 2023), Valencia (Spain), Oral, National.**
3. Vellvehi M., Ferrer C., Solà E., Raya M., Solé R., Tutusaus M., Sánchez D., Rebollo J., Perpinyà X., Aviñó-Salvadó O. and Jordà X.  
**High temperature logic level Si-VDMOS power transistors**  
**14th Spanish Conference on Electron Devices (CDE 2023), Valencia (Spain), Poster, National.**
4. Villegas J., Moffat N., Pellegrini G. and Hidalgo S.  
**nLGAD detectors for low penetrating particles: Concept and first results**  
**14th Spanish Conference on Electron Devices (CDE 2023), Valencia (Spain), Poster, National.**
5. Solà E., N. Fusté, D. Sánchez, J. Montserrat, X. Perpiñà, M. Vellvehi and X. Jordà.  
**High-Temperature Aging Tests of Silver Sintering Materials used as Die-Attach Layers.**  
**Electronic Materials and Packaging in Space (EMPS), Noordwijk (Netherlands), 21-23 November 2023, Oral, International.**
6. Manojlovic M., Moffat N., Villegas J., Hidalgo S., Pellegrini G., Lopez I.  
**Electrical characterization and attenuation factor determination of AC-LGAD run at CNM**  
**42rd RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders, Tivat (Montenegro), 20-23 June 2023.**
7. Debevc J., Hiti B., Kramberger G., Howard A., Skomina P., Zorko B., Hidalgo S., Pellegrini G., Manojlovic M. and Villegas Dominguez JA.  
**First measurements of irradiated CNM LGADs with carbon enriched gain layer.**  
**42rd RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders, Tivat (Montenegro), 20-23 June 2023.**
8. Arteché F., Fleta C., Flores D., Galindo J., Gómez G., Hidalgo S., Iglesias M., Martínez P., Matorras F., Merlos A., Molina A., Pradas A. and Vila I.  
**Time-Of-Flight based muography using LGAD sensors**  
**XV CPAN days (Centro Nacional de Física de Partículas, Astropartículas y Nuclear), Santander (Spain), 2-6 October 2023**

9. Pellegrini G., Hidalgo S.  
**LGAD: a Little bit of the early history**  
**43rd RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders, CERN (Geneva, Switzerland), November 28th to December 1st, 2023.**
10. Villegas J., Hidalgo S., Manojlovic M., Moffat N. and Pellegrini G.  
**Characterization of the last CNM fabrication of carbonated LGADs.**  
**43rd RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders, CERN (Geneva, Switzerland), November 28th to December 1st, 2023**
11. Rafí JM., Pellegrini G., Godignon P., Rius G., Dauderys V., Tsunoda I., Yoneoka K., Takakura K., Kramberger G. and Moll M.  
**Thermal Annealing of Electron, Neutron and Proton Irradiation Effects on SiC Radiation Detectors.**  
**43rd RD50 Workshop on Radiation Hard Semiconductor Devices for Very High Luminosity Colliders, CERN (Geneva, Switzerland), November 28th to December 1st, 2023**
12. Perpinyà X.  
**Die-Level Electro thermal studies and Reliability, Ruggedness & Failure Analysis in Power Devices**  
**1st Workshop on Smart and Integrated Packages for Power Electronics of the future. 30th November & 1st December 2023. Tarbes (France)**
13. Rius G., Vila I.  
**Quantum Information Science Techniques for direct dark matter detection**  
**Dark Matter 2023: From the Smallest to the Largest Scales, (Santander, Spain), 20th May-2nd June, 2023.**
14. Rius G.  
**IMB-CNM-CSIC R&D in the framework of InCAEM**  
**InCAEM Workshop - Planes Complementarios on Advanced Materials in Catalonia (April 14th) ALBA, Cerdanyola del Vallès (Spain), 2023**
15. Rius G.  
**Quantum Technologies**  
**TAE 2023 – International Workshop on High Energy Physics - CAPA Centro de Investigacion en Fisica de Astroparticulas y Altas Energias. (Sep 3rd-16th) Zaragoza, Spain, 2023**