



PEINE A
 Departamento de Biología
 PLANTA DE
 GENÉTICA
 PLANTA DE
 BIOLÓGICA CELULAR

SPINAL BIOMECHANICS OF SLIP AND FALL INCIDENTS
 M. J. García, J. M. García, J. M. García, J. M. García
 Universidad de Sevilla, Sevilla, España

This poster discusses the biomechanical aspects of slip and fall incidents, including the forces involved and the potential for spinal injury. It includes diagrams of the human spine and graphs showing the relationship between slip distance and spinal loading.

Comparative analysis of a magnetron in an autonomous cryogenic
 Carlos Hernández, Javier Murillo, Luis Ochoa
 Universidad de Sevilla, Sevilla, España

This poster compares the performance of a magnetron in a cryogenic environment. It includes a photograph of the magnetron and graphs showing its efficiency and power consumption under various conditions.

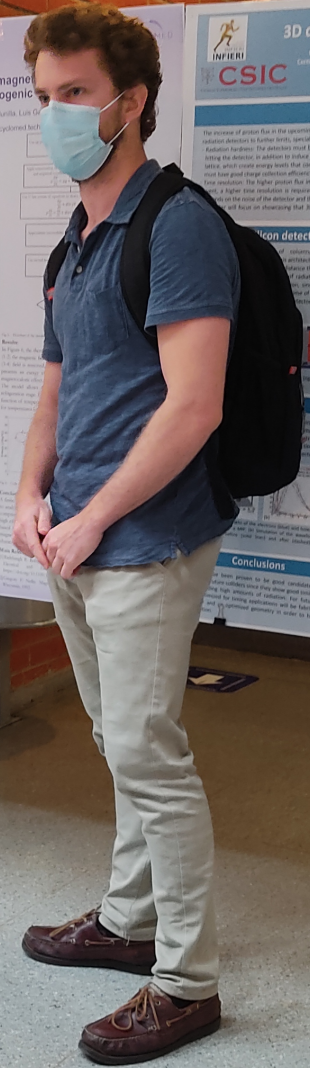
3D detectors for timing applications
 G. Arnes, G. Pellegrino, M. Maffei, M. Manna, G. Garroni, L. Vitellio
 Centro de Microtecnología de Barcelona, IMB-CSIC, Barcelona, Spain

Introduction
 The increase of silicon flux in the upcoming LHC upgrade, as well as the upcoming colliders like the FCC, are pushing the requirements of 3D radiation detectors to higher levels, especially demanding good performance of low specific parameters.

Radiation Hardness
 High doses of radiation create surface defects in the silicon which can act as charge traps. These traps may decrease the charge collection efficiency as well as increase the leakage current because of the new energy levels created in the band gap.

Timing measurements
 Small silicon arrays developed at CERN have been used for measuring the timing performance of the 3D technology of ultra-fast detectors.

References
 [1] G. Arnes, et al., "Performance of 3D silicon detectors for the LHC upgrade," *Nucl. Instrum. Methods Sect. A*, vol. 910, pp. 1-10, 2018.



POCO
 SHOT ON POCO M2 PRO