



Contribution ID: 103

Type: not specified

R&D Paths of Pixel Detectors for Vertex Tracking and Radiation Imaging

This report reviews current trends in the R&D of semiconductor pixellated sensors for vertex tracking and radiation imaging. It identifies requirements of future HEP experiments at colliders, needed technological breakthroughs and highlights the relation to radiation detection and imaging applications in other fields of science.

Authors: Dr DA VIA, Cinzia (University of Manchester (GB)); BATTAGLIA, Marco (University of California, Santa Cruz (US) and CERN)

Co-authors: KLUGE, Alex (CERN); Prof. PARKES, Chris (University of Manchester (GB)); Dr BORTOLETTO, Daniela (Purdue University (US)); Prof. DALLA BETTA, Gian-Franco (INFN and University of Trento); RIZZO, Giuliana (INFN Pisa); Dr GREGOR, Ingrid (Deutsches Elektronen-Synchrotron (DE)); WINTER, Marc (Institut Pluridisciplinaire Hubert Curien (FR)); CAMPBELL, Michael (CERN); COLLINS, Paula (CERN); DENES, Peter (LBNL); RIEDLER, Petra (CERN); BRENNER, Richard (Uppsala University (SE)); RE, Valerio (INFN); MANZARI, Vito (Universita e INFN (IT)); SNOEYS, Walter (CERN); GRAAFSMA, heinz