



Contribution ID: 8

Type: **not specified**

TPA Laser Experiment on the MPW2 HVCMOS MAPS chip

Friday 2 December 2022 11:10 (20 minutes)

We present here the mapping of charge collection efficiency for the MPW2 monolithic detector using the TPA-TCT technique in z-scan mode. The TPA-TCT mappings show the non-homogeneities of the detector pixel electric field due to the biasing and to the presence of microelectronic structures at different depths. The work demonstrates the usefulness of the TPA-TCT mapping to assess the quality of a pixel monolithic detector.

Authors: Dr PALOMO PINTO, Francisco Rogelio (Universidad de Sevilla (ES)); Mr PAPE, Sebastian (Technische Universitaet Dortmund (DE))

Co-authors: Dr HINOJO MONTERO, Jose Maria (Universidad de Sevilla (ES)); Prof. MOLL, Michael (CERN)

Presenter: Dr PALOMO PINTO, Francisco Rogelio (Universidad de Sevilla (ES))

Session Classification: Monolithic Devices