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Development of gaseous particle detectors based on semi- conductive plate electrodes

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A radiation hard detector with sub-nanosecond time resolution capable of working in high rate environment (order of MHz/cm 2) is under development.
Some gaseous detector prototypes made using planar Semi-conductive electrodes are being studied.
The prototypes have the same structure as an RPC detector but employ SI-GaAs electrodes with resistivity up to 10ˆ8 Ω·cm.
In this presentation some results as efficiency and time resolution of the configurations under test are described.

Vidyo?

yes

Authors: Dr ROCCHI , Alessandro (INFN e Università Roma Tor Vergata); CARDARELLI, Roberto (INFN e Universita Roma Tor Vergata (IT))

Co-authors: Dr CALTABIANO, Alessandro (INFN e Università Tor Vergata); ALUNNO CAMELIA, Elio (Universite de Geneve (CH)); Dr MASSA, Lorenzo (INFN e Università Tor Vergata); Dr PIZZIMENTO, Luca (INFN e Università Tor Vergata); DI STANTE, Luigi (Universita e INFN Roma Tor Vergata (IT)); Dr BRUNO, Salvatore (INFN e Università Tor Vergata)

Presenters: Dr ROCCHI , Alessandro (INFN e Università Roma Tor Vergata); ROCCHI, Alessandro (INFN e Universita Roma Tor Vergata (IT)); Dr ROCCHI, Alessandro (INFN e Università Tor Vergata)

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