



Contribution ID : 208

Type : **Poster**

## **Beam test results of pixelated silicon sensors for the charge identification of cosmic rays**

*Wednesday, 4 July 2007 14:45 (0:00)*

### **Abstract content**

Silicon sensors with 64 pixels of  $1 \text{ cm}^2$  area and 500 micron thickness were developed as building blocks of a large array for the charge identification of cosmic ray nuclei in balloon-borne or space-based experiments. A small telescope of sensors was exposed to pion and proton beams, interacting in a target, at CERN. Experimental results on the performance of the sensors will be reported.

**If this papers is presented for a collaboration, please specify the collaboration**

### **Summary**

### **Reference**

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 2 (OG part 1), pages 321-324

**Primary author(s) :** Prof. MARROCCHESI, Pier Simone (University of Siena and INFN)

**Co-author(s) :** AVANZINI, Carlo (INFN Pisa); BAGLIESI, Maria Grazia (University of Siena and INFN); BIGONGIARI, Gabriele (University of Siena and INFN); CALDARONE, Alessandro (University of Siena and INFN); CECCHI, Roberto (University of Siena and INFN); KIM, MeYoung (University of Siena and INFN); MAESTRO, Paolo (University of Siena and INFN); MALAKHOV, Nail (INFN Pisa); MILLUCCI, Vincenzo (University of Siena and INFN); MORSANI, Fabio (INFN Pisa); ZEI, Riccardo (University of Siena and INFN)

**Presenter(s) :** Prof. MARROCCHESI, Pier Simone (University of Siena and INFN)

**Session Classification :** Posters 1 + Coffee

**Track Classification :** OG.1.5