

# 10th Anniversary "Trento" Workshop on Advanced Silicon Radiation Detectors

Contribution ID: 32

Type: **not specified**

## Status of the proton Computed Tomography project developed within the RDH INFN experiment

*Thursday 19 February 2015 11:45 (20 minutes)*

Mara Bruzzi, Carlo Civinini, Giorgia Maccioni, Stefania Pallotta, Francesca Paulis, Nunzio Randazzo, Monica Scaringella, Valeria Sipala, Cinzia Talamonti, Eleonora Vanzi

Proton Computed Tomography (pCT) is a new imaging method with a potential for increasing accuracy of treatment planning and patient positioning in hadron therapy. A pCT system based on a silicon tracker and a YAG:Ce calorimeter has been developed within the PRIMA/RDH INFN CSN5 collaboration. Tests under proton beams gave promising results on radiography and tomographic reconstructions. Recent developments are reviewed in this talk.

**Author:** Prof. BRUZZI, Mara (Universita e INFN, Firenze (IT))

**Presenter:** Prof. BRUZZI, Mara (Universita e INFN, Firenze (IT))

**Session Classification:** Non HEP projects