



Contribution ID: 41

Type: **not specified**

Gaseous detectors for the Siemens IONTRIS medical application

Thursday, 10 November 2011 13:30 (30 minutes)

The Siemens IONTRIS system for Particle Therapy (*) comprises the raster scanning method for beam application. Due to the concept of reducing material in the beam path as much as possible, gaseous detectors are used to control beam application. The detectors are embedded into a detector system, comprising HV-generation, slow control, amplifier electronics, ADC's and reconstruction. Detector systems built by Siemens are in clinical use at the HIT facility in Heidelberg. Aspects of manufacturing, medical safety, documentation and quality control are discussed. The influence of the detector systems on the performance of the beam application system is outlined.

- Siemens Particle Therapy products and solutions are works-in-progress and require country specific regulatory approval prior to clinical use.

Primary author: Dr BRÄUER, Martin (Siemens)

Presenter: Dr BRÄUER, Martin (Siemens)

Session Classification: Particle Beam Monitoring & Therapy