Contribution ID: 15 Type: not specified

## Charge collection studies on heavily irradiated diodes from the RD50 multiplication run

Thursday 31 May 2012 11:30 (20 minutes)

Special diodes were designed on RD50 multiplication mask which combine the ease of use of a pad-detector with electric field of a strip detector. A series of charge collection measurements was performed with diodes of different implant properties and thicknesses. The diodes were irradiated in steps with neutrons to the total accumulated fluence of 1e16 cm-2. Charge collection efficiency for 90Sr was measured at each fluence step and the values were compared between the wafers with different properties.

Author: KRAMBERGER, Gregor (Jozef Stefan Institute (SI))

Co-authors: MANDIC, Igor (Jozef Stefan Institute (SI)); MIKUZ, Marko (Jozef Stefan Institute (SI)); CINDRO,

Vladimir (Jozef Stefan Institute (SI))

Presenter: KRAMBERGER, Gregor (Jozef Stefan Institute (SI))

**Session Classification:** Detector Characterization and Simulations

Track Classification: Detector Characterization