

Edgeless detectors with CTS: the 1st year successful operation in TOTEM

Tuesday 22 November 2011 17:10 (20 minutes)

The approach for edgeless detectors with current terminating structure (CTS) has been developed in collaboration between PTI and TOTEM in 2006. The idea was proved in several successful beam tests and then realized in the design of edgeless detectors for the Roman Pots TOTEM stations. 400 detectors have been processed in the consortium “Silicon detector laboratory” in Russia. The first year stable detectors operation on the LHC beam confirms the expectations and is discussed with a consideration of recent results on the edgeless detectors physics.

Primary author: Dr EREMIN, Vladimir (Ioffe Physical-Technical Institute of Russian Academy of Sciences)

Co-authors: Dr ERMOLAEV, Boris (Ioffe Physical-Technical Institute of Russian Academy of Sciences); Prof. KARSTEN, Eggert (CERN); Dr VERBITSKAYA, Elena (Ioffe Physical-Technical Institute of Russian Academy of Sciences); Dr RADERMACHER, Ernst (CERN); Dr RUGGIERO, Gennaro (CERN); EREMIN, Igor (Ioffe Physical-Technical Institute of Russian Academy of Sciences); Dr BAECHLER, Joachim (CERN); KONKOV, Konstantin (Research Institute of Material Science and Technology); FADEEVA, Nadezda (Ioffe Physical-Technical Institute of Russian Academy of Sciences); EGOROV, Nikolai (Research Institute of Material Science and Technology); GOLUBKOV, Sergei (Research Institute of Material Science and Technology); Dr TUBOLTSEV, Yuri (Ioffe Physical-Technical Institute of Russian Academy of Sciences)

Presenter: Dr EREMIN, Vladimir (Ioffe Physical-Technical Institute of Russian Academy of Sciences)

Session Classification: Full detector systems