Contribution ID: **36** Type: **not specified**

Toward a high granularity, high counting rate, differential read-out RPC

Wednesday, 10 February 2010 14:30 (20 minutes)

Next generation of experiments like CBM at FAIR will be confronted with the selection of rare probes in high multiplicity environment at collision rates up to 107 events/sec. Hadron identification in such a limiting environment is a real challenge and requires intensive R&D activity for developing high resolution and high granularity timing detectors at affordable cost. Recently, significant achievements in developing symmetric, multi-gap, multi-strip RPC architecture for high counting rate experiments using low resistivity glass electrodes, differential read-out and high granularity structures, were obtained. Results based on radioactive sources and in-beam tests will be presented.

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Session Classification: R & D in narrow-gap RPCs (II)