



Contribution ID: 209

Type: Oral

Digital RPC Gas Calorimetry for future colliders

Wednesday, November 8, 2023 11:45 AM (15 minutes)

University of Iowa, ANL, together through CALICE collaboration developed the Digital Calorimeter. The detector uses RPCs as active media and is read out with 1 x 1 cm 2 pads and digital (1-bit) resolution. Our group has the necessary expertise to develop alternative RPC gases, a gas recycling facility and HV system up to 8 kV. We will also develop low resistivity glass with the optimum resistivity to allow larger counting rates but still have the desirable RPC performance.

Early Career

No

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Session Classification: RDC6

Track Classification: RDC Parallel Sessions: RDC6: Gaseous Detectors