



Contribution ID: 61

Type: poster presentation

Tests of gas contaminants and interaction with materials in closed loop recirculation systems

Tuesday, 7 February 2012 18:46 (1 minute)

Gas recirculation systems are widely used in RPC detectors to cope with large gas mixture volumes and costs. A new long-term systematic study of gas purifiers has been carried out at CERN in a low-radiation test area, with the use of RPC chambers with currents monitoring, and gas analysis sampling points. The study aimed to measure the lifetime of purifiers after regeneration, to confirm the release of contaminants, and to characterize the behaviour of dark currents as a function of contaminants.

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Session Classification: Poster session

Track Classification: Ageing and interactions with materials