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An improved gas distribution system for the ATLAS RPCs

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A new gas distribution system has been designed to optimize the fine structure of the gas distribution of each single gas gap in view of the increasing LHC luminosity. Taking as input the present background rate distribution the new input impedances will take in to account the gap current in the gas change rate calculation. The new system will also be designed to maintain proportionality on a wide range of flow, minimizing the flow non linear dependence on input pressure

Primary author: Dr KOURKOUMELIS, Christine (CERN)

Presenter: PASTORI, Enrico (RM2)

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