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Study of flow and control of gas mixture for the Resistive Plate Chamber (RPC) performance

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The RPC performance dependence on several factors like the flow rate, quality of the gas mixture, environment etc. Some simulation studies (CDF) for flow distribution of gas inside the RPC is done which show that, there are some "dead zones", where the gas does not reach some pockets inside the RPC. The nozzle positions dependence is also observed in the simulation studies. The flow resistors namely the capillaries of different dimensions that could be used to control the flow of gas mixture inside an RPC also studied in detail. We would like to present the above studies.

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