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Characterization of new eco friendly gas mixtures for RPCs mainly based on HFO

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Present RPC Standard Mixture $C_2H_2F_4/C_4H_10/SF_6=94,7/5/0.3$ has an high Global Warming Potential which requires searching for more eco friendly gases. In this work we present results of several tests performed with different gas mixture having HFO as the main component. The RPC performance in terms of efficiency, charge and time resolution will be presented. We tried also to interpret the results obtained in terms of the physical and chemical properties of each component.

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