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Secondary Cosmic Ray detection with RPCs: a state-of-art review and possible application in Space weather studies

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Resistive Plate Chambers RPCs detectors are mainly used in particle accelerators due to its fast response and high time resolution. In the past few years some research groups all over the world are exploring the application of RPCs in secondary cosmic ray CR detection.
The present work reviews relevant literature available about the application of RPCs as CR detectors and summarizes the main characteristics that a RPC-based CR detector must have in particular for Space Weather and Solar Physics applications in the southern hemisphere.

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