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Outdoor MARTA RPCs performance update

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Over the last two decades, the possibility of using RPCs in outdoors systems has increased considerably. Our group has participated in this effort having installed several systems and continues to work on their optimization, while simultaneously studying and developing new approaches that can to use of RPCs in outdoor applications.

In particular, some detectors were deployed in the field at the Pierre Auger Observatory in 2019 remained inactive, awaiting the commissioning of support systems. During the pandemic the detectors were left without gas flow for more than two years, until 2022 when the were fill with gas and turn HV on, The behavior of 5 large area RPCs deployed under one of the AUGER water Cherenkov tanks will be presented.

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