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Optical monitoring of FRB20220912A and comparison with background/foreground events

Repeating FRBs are ideal targets for multi-wavelength observational campaigns aiming at potential counterparts. We are monitoring FRB 20220912A, one of the most active repeaters, using the fast optical photon counters Aqueye+ and Iqueye at the Asiago Observatory. We are trying to characterize foreground/background events by analyzing archival Aqueye+ data taken on other fields. To this purpose we studied the field of PSR J1023+0038, considering the source as a low-level sky background contaminant. We find that 90% of the statistically significant events detected above the average rate in the 1 ms binned light curve are present both in the on-source and on sky detector fields. This fact suggests that these events are linked to diffuse atmospheric phenomena. We will compare these events with those found in the field of FRB 20220912A.

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