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GeV Gamma-ray Counterparts of New Candidate Radio Supernova Remnants Detected in the GLEAM Survey

Recently the Galactic and Extra-galactic All-sky Murchison Widefield Array survey has published 27 new candidate radio supernova remnants (SNRs) which are located within the longitude ranges of $345^\circ < l < 60^\circ$ and $180^\circ < l < 240^\circ$. To search for the gamma-ray counterparts of these candidate radio SNRs, we analyzed 14 years of Fermi-LAT data in the energy range of 0.2 - 300 GeV. There are three promising SNRs; G18.9-1.2, G23.1+0.1, and G28.3+0.2, which we detected at a significance level of 11σ , 6.1σ , and 20.6σ , respectively. Here we report the results of our morphological and spectral analyses of G18.9-1.2, G23.1+0.1, and G28.3+0.2.

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