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The VOU-Blazars tool

Blazars are the most possible counterpart for very high energy detections. Observations have shown that HSPs play a crucial role in TeV/VHE astronomy, and we built a HSP catalog, 3HSP, contains ~2000 HSP candidates, based on multi-frequencies data to provide candidates for future TeV instruments. HSP catalog provides good candidates for the search of sources in VHE band. A tool, VOU-Blazars, was developed to search blazar candidates effectively. The main purpose to build this tool is to search blazar candidates effectively at a certain position within a specified area and to point out all the possible counterparts for VHE observations. With VOU-Blazars, we will find more HSP candidates and figure out the counterpart for VHE sources in a more efficient way. The VOU-Blazars tool has found several good blazars around not associated gamma-ray detections, and also contributes several sources to the 3HSP catalog. Moreover, the tool has been applied to identified all the potential blazar counterparts for IceCube-170922A effectively (Padovani et al. 2018).

Primary author: CHANG, Yu-Ling (N/A)

Co-authors: BRANDT, Carlos (N/A); Dr GIOMMI, Paolo (Agenzia Spaziale Italiana)

Presenter: CHANG, Yu-Ling (N/A)

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