

B-FlaP_v2 or classifying blazar candidates of uncertain type in the fourth Fermi-LAT catalog by Artificial Neural Networks.

Graziano Chiaro, Milôš Kovaevi, Gino Tosti, Paolo Giommi, David Salvetti, Giovanni LaMura.

This study is the second step of a first study (B-FlaP) applied to 3FGL catalog (<https://arxiv.org/pdf/1607.07822.pdf> / <https://arxiv.org/abs/1705.09832/arXiv:1808.05881>)

where the Empirical Cumulative Distribution Functions (ECD) and the Artificial Neural Networks (ANN) were applied for a fast method of screening and classification

for blazar candidates of uncertain type. This study will consider the preliminary "eight years" list FL8Y and when available the Fourth Fermi Catalog (4FGL) .

The search for new parameters to increase the effectiveness of the original B-FlaP algorithm will be the core of this study.