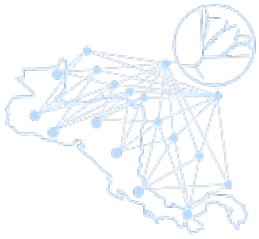

Contribution ID: **51** Type: **Session: High Energy Astrophysics**

Study of gamma ray activity in blazars and some implications for neutrino emission

Tuesday 1 December 2020 13:30 (30 minutes)

Blazars are the most luminous extrgalactic gamma ray sources. They are a type of Active Galactic Nuclei which are powered by material falling onto a supermassive black hole at the center of the host galaxy. They show sporadic bursts of activity with different time range. In this talk we present a 10 year data analysis of a sample of bright blazars detected by Fermi-LAT (0.1-300 GeV), in particular we present the Duty Cycle -the fraction of time that the source spends in active phase- for the sample. Also we present the consistence of this sample with the so called “blazar sequence” and how this analysis constrains possible counterpart of neutrino emission.

Authors: SACAHUI REYES, Jose Rodrigo (Universidad de San Carlos de Guatemala); Dr MARINELLI, Antonio (Instituto Nazionale di Fisica Nucleare, Sezione di Napoli, Italy); Dr PENACCHIONI, Ana (Instituto de Física de La Plata (IFLP), La Plata, Argentina.); Dr SHARMA, Ankur (Dept. of Physics and Astronomy, Uppsala University, Sweden); Dr CASTRO, Manuel (Instituto Nacional de Pesquisas Espaciais (INPE)- Divisão de Astrofísica, Brazil.); Mrs MABEL, Osorio (Instituto de Astronomía, UNAM. México); Mr MORALES, Marco Antonio (Instituto Balseiro, Universidad Nacional de Cuyo, Argentina)

Presenter: SACAHUI REYES, Jose Rodrigo (Universidad de San Carlos de Guatemala)

Session Classification: High Energy Astrophysics