Contribution ID : **23** Type : **Poster (A0 portrait)**

Gamma-rays from radio galaxies produced in the external blob radiation model

Tuesday, August 28, 2018 3:45 PM (0:20)

Abstract content

Gamma-ray emitting FR I type radio galaxies are expected to be aligned at large angles to the line of sight. We consider a scenario which naturally explains the energetic gamma-ray emission from radio galaxies. It is proposed that two emission regions are present in the jet at this same moment, the inner fast moving blob produces radiation strongly collimated along the jet axis and the outer blob which isotropic electrons up-scatter mono-directional soft radiation from the inner blob preferentially in the direction opposite to the jet motion. Gamma-rays from the outer blob are emitted at a relatively large angles to the jet axis in the observer's reference frame. We provide the example modeling of the emission from the FR I type radio galaxy NGC 1275.

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Session Classification : Poster Session and Coffee Break

Track Classification : Gamma-rays