

Is PKS 0625-354 a radio galaxy?

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Abstract content

The catalogue of TeV gamma-ray emitting objects includes about 80 extragalactic sources, among which most are blazars. Only a few of them belong to the class of radio galaxies or misaligned blazars. The latter includes PKS 0625-354, an object that was detected in very high energy gamma rays within only 5.5 hours of H.E.S.S. observations. Along with the H.E.S.S. observations, PKS 0625-354 was also observed with other instruments, in different frequencies, including: Fermi-LAT, Swift-XRT, Swift-UVOT and ATOM. H.E.S.S. data together with the multiwavelength (MWL) ones shed more light on current classification of PKS 0625-354 as a radio galaxy. Variability patterns observed in PKS 0625-354, together with the broadband spectral energy distribution (SED) modelling have shown that blazar-like scenario for this source is very plausible. In this talk I will report result of the H.E.S.S. and MWL observations of PKS 0625-354. I will also discuss possible interpretation of the broadband SED of PKS 0625-354 and features that classify the object as a blazar.

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