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Leptohadronic one-zone modelling of the blazar TXS 0506+056

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The blazar TXS 0506+056, spatially consistent with the IceCube neutrino alert IC170922A, was in a flaring state during the time of the neutrino alert. Multiwavelength follow-up observations were carried out. In this contribution, the SED of TXS 0506+056 is modeled in the context of a leptohadronic one-zone model to investigate the dominant radiation mechanism during the flare. The compatibility of the observed neutrino event with the predicted neutrino flux is discussed.

Primary author: Mr SANDROCK, Alexander (Technische Universität Dortmund)

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