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Neutrinos from TeV blazars

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The current generation of Cherenkov telescopes, together with Fermi-LAT, has greatly improved our knowledge of blazar physics, providing a precise measurement of their gamma-ray emission. The modeling of multi-wavelength spectral energy distributions of blazars has been proven to be a unique tool to constrain and refine blazar emission models, and thus the physics of outflows from super-massive black-holes. However, the long-standing question on leptonic vs hadronic models still remains open. A smoking-gun for hadronic processes in blazars is represented by neutrinos. In this contribution I will discuss blazar hadronic models and their associated neutrino emission, comparing it to current and future neutrino observatories.

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