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Could the steady-state neutrino emission of TXS 0506+056 come from the core of the active galactic nuclei?

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The blazar TXS 0506+056 is a candidate of high-energy neutrino sources. We propose that its neutrino emission could originate from the core region rather than the jet. We suggests that high-energy protons, accelerated by magnetic reconnection within a magnetically arrested disk (MAD) near the central black hole, interact with photons from the accretion disk and corona to produce neutrinos.

Primary authors: YANG, Qi-rui (Nanjing University); LIU, Ruoyu (Nanjing University); WANG, Xiang-Yu

Presenter: YANG, Qi-rui (Nanjing University)

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