

## **Paolo Padovani: Neutrinos from blazar jets: open issues and multi messenger synergies**

*Thursday, 9 June 2022 11:30 (25 minutes)*

I will first give an overview of neutrino astrophysics and then introduce the IceCube observatory, which is the largest neutrino detector in the world. I will then address the very hot topic of the astronomical counterparts of IceCube neutrinos, concentrating on the first association with the blazar TXS 0506+056 and then discussing more recent ones, which strengthen the case that at least some blazars should be neutrino sources. I will then talk about the very strong synergies between neutrino astrophysics and very high-energy astrophysics and in particular the role that Astri and CTA will have.

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