Contribution ID: **56** Type: **not specified**

Open-Source Tools for Neutrino Astronomy

Thursday, 14 November 2024 14:30 (30 minutes)

As we move towards the multi-telescope era of neutrino astronomy, it is i critical to develop collaborative approaches that ensure maximal scientific output. One facet of fulfilling this need is common tools for simulation and data analysis across detectors. In this talk, I will present Prometheus, an open-source framework for simulating neutrino interactions in neutrino telescopes. I will also present preliminary results from applying the open-source machine-learning package GraphNeT to Prometheus datasets from many current and planned neutrino telescopes.

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Session Classification: Multi-messenger probes