



Contribution ID: 103

Type: not specified

Using NuRadioMC to study the performance of UHE radio neutrino detectors

Tuesday 7 June 2022 15:00 (15 minutes)

NuRadioMC is an open-source, Python-based simulation and reconstruction framework for radio detectors of Ultra-High-Energy (UHE) neutrinos and cosmic rays. Its modular design makes NuRadioMC suitable for use with a range of past, current and future detectors. In addition, the recent deployment of a complete documentation as well as a pip release make NuRadioMC relatively easy to learn and use. This talk will outline the features currently available and under development in NuRadioMC, with a focus on its usage to simulate and study in-ice radio neutrino detectors, such as the planned IceCube-Gen2 Radio extension.

Authors: BOUMA, Sjoerd; CLARK, Brian; GIRI, Pawan; GLASER, Christian; HALLMANN, Steffen (DESY); HEYER, Nils (Uppsala University); KRAVCHENKO, Ilya (University of Nebraska Lincoln (US)); NELLES, Anna (DESY Zeuthen); OEYEN, Bob; PLAISIER, Ilse; PYRAS, Lilly; SCHLÜTER, Felix; WELLING, Christoph

Presenter: BOUMA, Sjoerd

Session Classification: Ice Data Analysis & Tools 1