

Session Program

Jun 8 - 11, 2026



11th International Workshop on Acoustic and Radio EeV Neutrino Detection Activities

Simulations/Simulation Studies

Schlosshotel Karlsruhe
Bahnhofplatz 2, 76137 Karlsruhe, Germany

Wed, June 10

9:00 AM

Simulations/Simulation Studies

Session | **Location:** Schlosshotel Karlsruhe, Bahnhofplatz 2, 76137 Karlsruhe, Germany

9:00 – 9:15 AM **Simulating an Imaging Atmospheric Radio Telescope**

Speaker

Anne Timmermans

9:15 – 9:30 AM

Radio Detection of Earth-Skimming Tau Neutrinos: A Comparison of Frequency Bands and Antenna Designs

Speaker

Felix Schlüter

9:30 – 9:45 AM

The case for studying anomalous showers with the Square Kilometre Array

Speaker

Stijn Buitink

9:45 – 10:00 AM

Millisecond radio signal generation enabling simulation-based multi-parameter reconstruction of ultra-high-energy cosmic rays

Speaker

Arsène Ferrière

10:00 – 10:15 AM

Radio emission from particle distributions in extensive air showers

Speaker

Juan Ammerman-Yebra

10:15 – 10:30 AM

Efficient Time-Domain Modeling of Geomagnetic and Askaryan Radiation from Air Showers

Speaker

Carmen Pavon-Souto

10:30 – 10:45 AM

Radio emission in complex media simulations with Corsika8

Speaker

Dominik Baack

10:45 AM

11:15 AM

Simulations/Simulation Studies

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11:15 – 11:30 AM **Simulation of Deep Cosmic Rays with FAERIE framework for RNO-G**

Speaker

Prof. David Seckel

11:30 – 11:45 AM

Radar Signal Properties from Neutrino-Induced Particle Cascades

Speaker
Isha Loudon

11:45 AM - 12:00 PM

What can we learn from radio emission from ice-impacting air showers?

Speaker
Cosmin Deaconu

12:00 - 12:15 PM

Sensitivity of the Askaryan Radio Array to Ultra-High Energy Neutrinos

Speaker
Marco Muzio

12:15 - 12:30 PM

Modelling In-Ice Secondary Cosmic Ray Cascades

Speaker
Isha Loudon

12:30 - 12:45 PM

Likelihood-Based Reconstruction for Radio Detector Experiments

Speaker
Martin Ravn

12:45 - 1:00 PM

Semi-analytical parametrization of in-ice radio signals from cosmic ray particle cascades

Speaker
Simon Chiche

1:00 PM