

Session Program

Jun 8 - 11, 2026



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

Reconstruction

Schlosshotel Karlsruhe
Bahnhofplatz 2, 76137 Karlsruhe, Germany

Thu, June 11

9:00 AM

Reconstruction

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

9:00 - 9:15 AM

Radio interferometric air shower reconstruction at the Pierre Auger Observatory

Speaker

Pim van Dillen

9:15 - 9:30 AM

Radio Interferometric Reconstruction of Air Shower Parameters with the SKA-Low array

Speaker

SUBHADIP SAHA

9:30 - 9:45 AM

A New Interferometric Reconstruction Method for Radio Neutrino Detection: Application to the Future HERON Observatory

Speaker

Arsène Ferrière

9:45 - 10:00 AM

A bayesian air-shower reconstruction method, applied to LOFAR data

Speaker

Karen Terveer

10:00 - 10:15 AM

Radio Reconstruction of Inclined Air Showers with Information Field Theory

Speaker

Mr Simon Strähnz

10:15 - 10:30 AM

Beyond X_{max} : Reconstructing Air Shower Profiles with Information Field Theory with SKA-Low

Speaker

Keito Watanabe

10:30 AM

11:00 AM

Reconstruction

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

11:00 - 11:15 AM

Reconstructing Electric Current Densities of Extensive Air Showers with Information Field Theory

Speaker

Maximilian Straub

11:15 - 11:30 AM

Bayesian imaging of cosmic-ray air showers

Speaker
Mrinal Jetti

11:30 - 11:45 AM **A simulation template-based air shower reconstruction method**

Speaker
Arthur Corstanje

11:45 AM - 12:00 PM **Reconstruction of anomalous air showers with SKA-Low**

Speaker
Vital De Henau

12:00 - 12:15 PM

A new method of X_{\max} reconstruction via geometrical backtracking of radio signals

Speaker
Jhansi Bhavani Vuta

12:15 - 12:30 PM

Deducing the development of air showers through measurements of their induced radio-waves

Speaker
Charles Timmermans

12:30 PM

3:30 PM

Reconstruction

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3:30 - 3:45 PM

Differentiable End-to-End Optimization of In-Ice Radio Neutrino Detectors

Speaker
Nicolai Weitkemper

3:45 - 4:00 PM

Downward ultra-high-energy neutrino detection in the air with radio antennas at ground-based observatories

Speaker
Baobiao Yue

4:00 - 4:15 PM

Energy estimation of cosmic ray events recorded aboard balloon-borne experiments.

Speaker
Sergio Cabana Freire

4:15 - 4:30 PM

Reconstruction Methods and Detector Optimisation Techniques for the Radar Echo Telescope for Neutrinos

Speaker
Jannes Loonen

4:30 - 4:45 PM

Progress Toward a Sub-Threshold Search for the Radar Echo Telescope for Cosmic Rays

4:45 PM

Speaker
Curtis McLennan