

Session Program

9-13 Nov 2026

Illuminating the Cosmos: Chemical Elements in Stars, Planets, Nebulae, and Transient Extra-galactic Events

Supernovae

Haus der Astronomie, Auditorium
Königstuhl 17 69117 Heidelberg

Wednesday 11 November

08:40

Supernovae

Session | **Location:** Haus der Astronomie, Auditorium, Königstuhl 17 69117 Heidelberg

09:00–09:30 **TBA**

Speaker

Kenta Hotokezaka

09:30–09:50 **Explodability and explosion energies of neutrino-driven supernovae**

Speaker

Kiril Maltsev

09:50–10:10

Signatures of the first stars among local extremely-metal-poor descendants

Speaker

Francesco Gabrielli

10:10–11:10 **coffee**

11:10–11:30 **Implications for the $^{12}\text{C}(\alpha,\gamma)^{16}\text{O}$ Reaction Rate from G292.0+1.8**

Speaker

Mitsuki Kubo

11:30–11:50 **Clues for the Origin of the Heaviest Elements**

Speaker

Friedrich Thielemann

11:50–12:10

Time Evolution of Dust Formation and Infrared Emission in Failed Supernovae

Speaker

Kengo Shinoda

12:30–13:30 **lunch**

13:30–14:00 **TBA**

Speaker

Christine Collins

14:00–14:20

Mapping Helium-Burning Rate Sensitivities for ^{56}Ni Production in Pair-Instability Supernovae

Speaker

Hiroki KAWASHIMO

14:40–15:40 **coffee**

15:40–16:00 **Rethinking chemical evolution**

Speaker

Ralph Schoenrich

16:00–16:20

Grey M1 Photon Transport in Aenus-ALCAR: Towards 3D Supernovae from Core Collapse to Shock Breakout

Speaker

Giorgio La Malfa

16:20–16:40

Illuminating nebular phase supernovae with 3D NLTE radiative transfer modelling

Speaker

Bart van Baal

17:00–18:00

meeting of Gruber Laureates 2026 with students

20:50