

Session Program

13–17 May 2019



SN neutrinos at the crossroads: astrophysics, oscillations, and detection

Astrophysics Session

ECT* - Villa Tambosi, Meeting room
Strada delle Tabarelle, 286 38123 - Villazzano (TN) Italy

Monday 13 May

10:00

Astrophysics Session

Session | Location: ECT* - Villa Tambosi, Meeting room, Strada delle Tabarelle, 286 38123 - Villazzano (TN) Italy

10:00–10:40 Supernovae and neutrinos

Speaker

Prof. John Beacom

10:40–11:20 Coffee Break

11:20–12:00 Core collapse supernova simulation at the crossroads

Speaker

Prof. Anthony Mezzacappa

12:00–14:00 Lunch

14:00–14:30 Multi-messenger supernova neutrino detection

Speaker

Prof. Irene Tamborra

14:30–15:00 Pushing spherically symmetric SN to explosion

Speaker

Prof. Carla Fröhlich

15:00–15:30 SN gravitational waves at the crossroads: synergetic analysis with SN neutrinos

Speaker

Prof. Kei Kotake

15:30–16:10 Coffee Break

16:10–16:40 Neutrino bremsstrahlung rate in supernova matter revisited based on chiral EFT potential

Speaker

Dr Guo Gang

16:40–17:00 Probing rotation of core-collapse supernovae with neutrino gyroscopes

Speaker

Dr Laurie Walk

17:00–17:20 Core-collapse supernovae are thermonuclear explosions

Speaker

Dr Doron Kushnir

17:20–17:40 Supernova neutrino detection with KM3NeT

Speaker

Dr Vladimir Kulikovskiy

17:50