

Fincospar 2017: Seili, Aug 23 - 25

23 Aug Wednesday

09:20–10:40 Turku – Nauvo bus connection

12:10 Ferry leaves from Nauvo and its 12:40 in Seili

13:00 Lunch and taking luggage to the rooms

Session 1: Astrophysics I (TDE+GW)

14.00-14.40 Jonker (40) Tidal disruption events (invited)

14.40-15.00 Kankare (20) A new type of extremely energetic transients in Seyfert galaxies

15.00-15.20 Mattila (20) A dust-enshrouded tidal disruption event with a resolved radio jet in a galaxy merger

15.20-15.40 Valtonen (20) Gravitational waves from merging and spinning black hole binaries: a detailed study of the OJ287 binary

15:40 coffee

Session 2: Space physics I

16.00-16.30 Vainio, Pulkkinen (moderators) (30) Discussion on Space strategy

16.30-17.10 Palmroth (40) Global hybrid-Vlasov simulations of the terrestrial magnetosphere (invited)

17.10-17.30 Aikio (20) SWARM satellite and EISCAT radar observations of a strong midnight flow channel

17:30 Dinner

Tour in Seili 1. group 18.30-19.30, 2. group 19.30-20.30, Sauna (4 groups between 18.30-22.30), freetime

24 Aug Thursday

Session 3: Astrophysics II (Supernovae)

9:00-9:40 Maeda (40) Supernovae and their progenitors (invited)

9.40-10.00 Kuncarayakti (20) Mass and metallicity constraints on supernova progenitors

10.00-10.20 Heikkilä (20) HMXBs as progenitors to core-collapse supernovae

10.20-10.40 Reynolds (20) The evolution of bright type II supernovae observed as part of the NUTS survey

10:40 coffee

Session 4: Astrophysics III (X-ray binaries)

11.10-11.30 Poutanen (20) Ultra-luminous X-ray pulsars

11.30-11.50 Chaskina (20) Super-Eddington accretion onto a magnetized neutron star

11.50-12.10 Kajava (20) The 2015 outbursts of the black hole transient V404 Cyg

12.10-12.30 Kosenkov (20) High-precision optical polarimetry of the accreting black hole V404 Cyg during the June 2015 outburst

12.30-12.50 Koljonen (20) The hypersoft state of Cyg X-3: A key to jet quenching in X-ray binaries?

12.50-13.10 Short poster presentations

13:10 lunch

Session 5: Space physics II

14.00-14.40 Petri Niemelä: "Aalto-1 nanosatellite's first two months in space" (40)

14.40-15.00 Talebpour-Sheshvan (20) 3D View of the Solar Radio Emission Created by Fast Coronal Mass Ejections

15.00-15.20 McKay (20) Using interferometric radiometry imaging with KAIRA to map high-energy ionospheric electron precipitation

15.20-15.40 Zubko (20) New VGOS radio telescope in Finland

15:40 coffee

Session 6: Astrophysics IV (AGNs)

16.10-16.30 Lindfors (20) Cherenkov Telescope Array - A Sensitive Probe of the Extreme Universe

16.30-16.50 Savolainen (20) Ultra-high resolution imaging of black hole -powered jets

16.50-17.10 Hovatta (20) Revealing the magnetic fields around relativistic jets using ALMA

17.10-17.30 Abolmasov (20) Broad-line region emission and gamma-ray absorption in blazars

17.30-17.50 Fallah Ramazani (20) Extreme BL Lacs, a new class of very high energy gamma-ray emitters?

17:50 break

18:00 Annual meeting of the Finnish Astronomical society (~30 min)

19:00 Conference dinner

25 Aug Friday

Session 7: Astrophysics V

9:00-9:20 Johansson (20) Rapid formation of supermassive black holes in close proximity to embryonic protogalaxies

9:20-9:40 Heinämäki (20) Quasi-spherical superclusters

9:40-10:00 Juvela (20) Polarised emission of interstellar dust: space- and ground-based observations and modelling

10:00-10:20 Muinonen (20) Light scattering in planetary regoliths

10:20 coffee

Session 8: Space physics III

10.50-11.30 Mursula (40): Science results from ReSoLVE Centre of Excellence

11.30-11.50 Virtanen (20) Satellite tracking and characterisation using Metsähovi satellite-laser-ranging system

11.50-12.10 Wilkman (20) Studying the relationship between Earth albedo and satellite orbits

12:10 conference summary

12:30 lunch

14:20 Ferry leaves from Seili - 14:50 in Nauvo

16:10-17:35 Nauvo – Turku bus connection

Posters:

Mönkkönen: High-frequency noise in GRO J1744-28: Evidence for a radiation-pressure dominated inner disk

Raukkunen: Two solar proton fluence models based on ground level enhancement observations

Lakka: The Cross-Polar Cap Saturation in GUMICS-4 During High Solar Wind Driving

Kravtsov: Constraining supernova progenitors using integral field spectroscopy

Peltoniemi: Mobility and terrain accessibility analysis for hopper - an underactuated mobile robot for planetary exploration

Workayehu: Studying the ionospheric horizontal and field-aligned currents from the Swarm satellite measurements