

**SRE Inter-Departmental
Science Workshop
23-25 November 2011
Toledo, SPAIN**



Organising Committee:

Alba Alcol

Jean Clavel

Nick Hanowski

Patrick Martin

Olivier Witasse

Oral Programme

Wednesday 23 November 2011

Reminder: Following hotel arrival: Poster hanging time!

12:30-14:00 Buffet Lunch in Hotel

Session 1 Chair: Göran Pilbratt

14:00-14:15 Welcome and Introduction (P. Martin, M. McCaughrean, M. Kessler)

14:15-14:30 Anthony Marston: "The Earliest Star Formation in the M16 Region as Seen by Herschel"

14:30-14:45 Elaine Winston: "Herschel's View of Young Stars in Chamaeleon I"

14:45-15:00 Joe Zender: "LYRA Occultation Data Analysis in Search for Ablation Signals from the GEMINID Meteor Shower 2010"

15:00-15:15 Detlef Koschny: "Constraining the Luminous Efficiency of Meteors"

15:15-15:30 Luigi Cacciapuoti: "Measuring Gravity with an Atom Interferometer"

15:30-16:00 Coffee Break + Poster Setup for Stragglers

Session 2 Chair: Matt Taylor

16:00-16:30 Newcomers Introduction and Presentations

- Matthew Allen
- Nicola Da Rio
- Andrej Dobrotka
- Lauranne Fauvet
- Catherine Fisher
- Prashin Jethwa
- Agnes Kospal
- Nathan Leigh
- Elena Martellato
- Jiri Svoboda
- Stefan Voelk

16:30-16:45 Joana Santos: "The Evolution of Feedback and Star Formation in Distant Galaxy Clusters"

16:45-17:00 Bruno Altieri: "The Star Formation Activity Since 11 Gyr as Revealed by Herschel Deep Surveys"

17:00-17:15 Patrick Martin / Damhnait Gleeson: "Scale-Integrated Spectral Characterisation of Mineralogical Analogues to Mars Sites of High Exobiological Potential"

17:15-17:30 Bernard Foing: “Astrobiology in Mars Analogues: Geochemical Habitats and Biodiversity”

17:30-17:45 Guillaume Belanger: “Stopping and Looking at the Way we do Statistics in Astronomy”

18:00-20:00 Poster Session (with drinks)

20:00 Buffet Dinner in Hotel

Thursday 24 November 2011

Session 3 Chair: Rachel Soja

09:00-09:15 Göran Pilbratt: “Cold Disks Around Nearby Stars - News from Herschel”

09:15-09:30 David Ardila: “Debris Disks and Planets: New Evidence for Dynamical Stirring”

09:30-09:45 Olivier Witasse: “Study of Elongated Craters on Mars, the Moon and Mercury”

09:45-10:00 Damien Loizeau: “The Phyllosian Era of Mars: The two Different Cases of Mawrth Vallis and Tyrrhena Terra”

10:00-10:15 Daniel Michalik: “Combining and Comparing Astrometric Data from Different Epochs: A Case Study with Hipparcos and Nano-JASMINE”

10:15-10:30 Roland Vavrek: “Complexity of the Diffuse Interstellar Medium in Large Scale Herschel Imaging Surveys”

10:30-11:00 Coffee Break

Session 4 Chair: Larry O'Rourke

11:00-11:15 Division Research (L. Colangeli, N. Hanowski, A. Parmar)

11:15-11:30 Rita Schulz: “Pre-Perihelion Monitoring of Rosetta Target Comet 67P/Churyumov-Gerasimenko”

11:30-11:45 Björn Grieger: “Modelling the Trajectories of cm to meter Sized Chunks in the Vicinity of Comet 67P/Churyumov-Gerasimenko”

11:45-12:00 (Cancelled) Guido De Marchi: “Discovery of ~15 Myr old premain sequence stars with active accretion and sizeable discs in Eagle Nebula”

12:00-12:15 Miguel Sanchez Portal: “AGN and Star Formation Activity and the Nature of the Dusty Torus: The Herschel's View”

12:15-12:30 Arianna Piccialli: "Gravity Waves at the Venus Cloud Tops as Observed by the Venus Monitoring Camera"

12:30-14:00 Buffet Lunch Break

Session 5 Chair: Elaine Winston

14:00-14:15 Peter Kretschmar: "The BeXRB Outburst Zoo"

14:15-14:30 Torsten Boeker: "Molecular Gas around Low-Luminosity AGN in Late Type Spirals"

14:30-14:45 Matthias Ehle: "X-raying the Mach Cones of Virgo Cluster Spiral Galaxies"

14:45-15:00 Matt Taylor: "Kelvin Helmholtz Wave Activity at the Earth's Magnetopause under Northward Interplanetary Magnetic Field Conditions"

15:00-15:15 Bartolomeo Viticchie: "Extremely Asymmetric Stokes V Profiles and their Formation in the Quiet Sun"

15:15-15:30 Rachel Soja: "Dust Orbits Near Jupiter's Galilean Satellites"

15:30-15:45 Frederic Raison: "Detection of Polarization Effects in Gaia Data"

15:45-16:00 Conny Hansson: "Synchrotron Radiation Studies of Spectral Response Features Caused by Te Inclusions in a Large Volume Coplanar Grid CdZnTe Detector"

16:30 Buses Depart for Toledo Guided Visit and Dinner

Friday 25 November 2011

Session 6 Chair: Jan-Uwe Ness

09:30-09:45 Oliver Jennrich: "Listening for NEOs"

09:45-10:00 Morten Andersen: "Low-Mass Stars in Westerlund 1, the Most Massive Young Galactic Star Cluster Known in the Galaxy"

10:00-10:15 Pedro Garcia-Lario: "Fullerenes Everywhere! Complex Carbonaceous Compounds around Dying Stars"

10:15-10:30 Michael Kueppers: "The Central Crater Region on (21) Lutetia"

- 10:30-10:45 Mark Kidger: "Herschel's Quest to Find the Ghost of Comet Elenin"
- 10:45-11:00 Benne Holwerda: "New Herschel Multi-Wavelength Extragalactic Survey of Edge-on Spirals (NHEMESIS)"
- 11:00-11:15 Davide Gandolfi: "Doppler Tomography of Transiting Exoplanets: A Prograde, Low-Inclined Orbit for the Hot-Jupiter CoRoT-11b"
- 11:15-11:30 Bruno Merin: "Spitzer Results on Disk Evolution: Matching Stellar Properties of Disks and Exoplanet Hosts"

11:30-12:00 Coffee Break

Session 7 Chair: Dmitriy Titov

- 12:00-12:15 Jan-Uwe Ness: "Effect of Viewing Angle on Super-Soft-Source X-Ray Spectra"
- 12:15-12:30 Stephan Birkmann: "Resolving the Inner Regions of Circumstellar Disks with VLT/NACO Polarimetric Differential Imaging"
- 12:30-12:45 Jan Soucek: "Multi-Spacecraft Analysis of Large Scale Plasma Variations within Earth's Magnetosheath"
- 12:45-13:00 Angels Arans: "Developing a New Model for Peak Intensity and Fluence Predictions of Solar Energetic Proton Events within 1.6 AU"
- 13:00-13:15 Nicolas Altobelli: "From Data to Equations: Inferring the Laws Governing Saturn's Ring Temperature with Cassini-CIRS"
- 13:15-13:30 Larry O'Rourke: "Herschel Observation of OSIRIS-REx Asteroid Target 1999 RQ36"

13:30-13:45 Concluding Remarks, Wrap-Up and Adjourn

14:00-15:30 Buffet Lunch in Hotel

Poster Programme

1. **Arnaud Masson:** “Cluster Multi-Point Look at Density Cavities in the Auroral Acceleration Region”
2. **David Teyssier:** “The Horsehead Nebula as Seen by Herschel”
3. **Marion Cadolle:** “Polarized Gamma-Ray Emission from the Galactic Black Hole Cygnus X-1”
4. **Jos De Bruijne:** “Gaia's View of Open Clusters: A Case Study of R136 in the Large Magellanic Cloud”
5. **Celia Sanchez:** “The JEM-X Catalogue of Galactic X-ray Bursters”
6. **Stefania Carpano:** “Transiting Exoplanets from the CoRoT Mission: Status of the Detection of Candidates and Confirmed Planets”
7. **Alcione Mora:** “Gaia Young Stars Spectroscopic Library”
8. **Arianna Piccialli:** “Limb Observations of CO₂ non-LTE Emission in Mars Atmosphere by OMEGA/MEX”
9. **Olivier Witasse:** “Interdisciplinary Study of the Methane on Mars”
10. **Albrecht Schmidt:** “Extraction and Classification of Spectra”
11. **Ricardo Perez Martinez:** “Star Forming Galaxies vs AGNs in Galaxy Cluster CL0024+1654”
12. **Dmitriy Titov:** “Cloud Morphology and Dynamics of the Venus Atmosphere”
13. **Anna Lia Longinotti:** “Hidden Warm Absorber in the Seyfert 1 Mrk 335: A High-Velocity Ionised Wind Uncovered by XMM-Newton and Swift”
14. **Deborah Baines:** “Science with the VO: Spectroscopic Studies of Herbig Ae/Be Stars”
15. **Anamarija Stankov:** “High Time-Resolution Observations of the Flare Star EQ Pegasi - Preliminary Results”
16. **Rene Laureijs:** “The balloon-Borne Far-Infrared Polarisation Mapping Experiment PILOT”
17. **David Heather:** “Automated Crater Detection in Mars Express HRSC Images”
18. **Miguel Almeida:** “Pattern Recognition for the Creation of Synthetic Flat Fields”
19. **Alejandro Cardesin:** “Science Opportunity Analysis and Observation Geometry for Solar System Operations and Science Planning”
20. **Alvaro Ribas:** “Infrared Excess in Systems with Transiting Planets: Evidence of Planetesimals Collisions?”
21. **Joe Zender:** “PROBA2: Two Years in Orbit”
22. **Jonathan McAuliffe:** “2011 Draconid Observation Campaign: Predictions, Observations, Results”
23. **Laurence O'Rourke:** “Herschel Observations of (21) Lutetia around the Rosetta Flyby”
24. **Hakan Svedhem:** “An Instrument for the Detection of Fast Transient Phenomena in Planetary Atmospheres: SPOSH-IR”
25. **Tomasz Klos:** “Cleaning Double Star Magnetic Field Data”