Seminar Series "Hot Topics in Astrophysics"

Thursdays 18 October 2001 – 18 April 2002, at 10:30

Room F6306 (at Chalmers, Physics, Forskarhuset, 6th floor)

COORDINATOR: Alessandro Romeo (romeo@fy.chalmers.se)

The Department of Astronomy and Astrophysics within the Centre for Astrophysics and Space Science welcomes you to our seminar series, which is addressed to an *audience of physicists and students in physics*. There will be coffee and cookies!

See you soon!!!

Alessandro

PROGRAMME

- **18 October**
  Cosmology as a Testing Ground for Quantum Mechanics
  — Antony Valentini (special guest from the Imperial College, London, UK)
- **25 October**
  Perturbing the Spacetime
  — Sebastiano Sonego (special guest from the University of Udine, Italy)
- **1 November**
  Massive Bursts of Starformation in Galaxies
  — Alan Pedlar
- **8 November**
  Astrochemistry of Life
  — Achim Tappe
- **15 November**
  N-Body Simulations with One-Order-of-Magnitude Higher Performance Using Wavelets
  — Alessandro Romeo
- **22 November**
  Star Dancers
  — Maria Sundin (special guest from the Department of Experimental Physics)
- **29 November**
  Big Bang and Black Holes: A Geometrical Understanding of Our Universe
  — Rickard Jonsson
- **6 December**
  Baron von Münchausen: An Account of the Role of Spacetime Structure in Physics
  — Hans Westman
- **13 December**
  New Astronomy with the ODIN Satellite
  — Åke Hjalmarson

- **20 December**
  Quasi Periodic Oscillations in X-Ray Fluxes from Neutron Stars and Black Holes
  — Marek Abramowicz
- **10 January**
  Physics from Higher Dimensions in String Theory
  — Bengt Nilsson (special guest from the Department of Theoretical Physics)
- **17 January**
  Spin Evolution of Disc-Accreting X-Ray Pulsars
  — Ulf Torkelsson
- **24 January**
  Properties of Massive Starforming Regions as Revealed by Molecular-Line Observations
  — Henrik Olofsson
- **31 January**
  The G-Dwarf Problem
  — Gustaf Rydbeck
- **7 February**
  What Do Methanol Masers Tell Us about Star Formation?
  — Michele Pestalozzi
- **14 February**
  The ALMA Project: The Next-Generation Sub-Millimetre Telescope
  — Tommy Wiklind
- **21 February**
  Popular Astronomy under Light-Polluted Skies
  — Claes Göran Carlsson (special guest from the Slottsskogen Observatory)
- **28 February**
  Spiral Arms and the Mass Distribution in Galaxies
  — Magnus Thomasson
- **7 March**
  Studies of the Stellar Dynamics in the Centre of the Milky Way Galaxy
  — Anders Winnberg
- **14 March**
  Interferometry and Stellar Masers: What Can They Tell Us about Dying Stars?
  — Jiyune Yi
- **21 March**
  Cold Gas in Hot Starbursts
  — Susanne Aalto
- **4 April**
  Approaches to Quantum Gravity
  — Martin Cederwall (special guest from the Department of Theoretical Physics)
- **11 April**
  Linear Carbon Molecules in Space
  — John Black
- **18 April**
  Distant Galaxies: How Do They Become Today's Galaxies?
  — Duília de Mello

NOTE: For updates see `http://fy.chalmers.se/veckoschema.html`