



# Program of 'Astronomdagar 2005'

## Uppsala, October 21 - 22, 2005

### Friday (Oct. 21):

9:00-- 9:30 Welcome Hans Rickman  
Including short presentations:

- National Committee for Astronomy (its chair-person)
- Populär Astronomi (Björn Stenholm)
- Invitation to Kiruna (Martin Bohm)

### Session A - Chair: Dan Kiselman

9:30-10:00	Amateur contributions to astronomical research	Johan Warell (invited)
10:00-10:15	New observatory in central Umeå: visions and goals.	Gabriella Stenberg
10:15-10:30	Astronomical Quantum Optics with Extremely Large Telescopes	Dainis Dravins
10:30-11:00	Coffee Break	

### Session B - Chair: Brigitta Nordström

11:00-11:30	The formation and evolution of thick disks in spiral galaxies -- the local perspective	Sofia Feltzing (invited)
11:30-12:00	What do we know about the Galactic bulge?	Nils Ryde (invited)
12:00-12:15	Carbon stars in local group dwarf galaxies: C & O abundances	Rurik Wahlin
12:15-12:30	The Red Halo Phenomenon	Erik Zackrisson
12:30-14:00	Lunch	

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 Session C - Chair: Ulf Torkelsson
 

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14:00-14:30	Gravitational wave astronomy: probing the extremes of physics	Nils Andersson (invited)
14:30-14:45	Quasi-thermal emission in Gamma-ray bursts	Felix Ryde
14:45-15:00	Mass transfer in eccentric binaries	Johann Dischler
15:00-15:15	Astrophysical Lasers	Sveneric Johansson
15:15-15:30	Fluorescence processes in symbiotic stars	Mattias Eriksson
15:30-16:00	Coffee Break	

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 Session D - Chair: Susanne Höfner
 

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16:00-16:30	Moons and magnetosphere of Saturn - latest results from Cassini/Huygens	Jan-Erik Wahlund (invited)
16:30-16:45	Restoration of seeing-degraded solar images	Mats Löfdahl
16:45-17:00	3D hydrodynamical model stellar atmospheres of metal-poor red giants	Remo Collet
17:00-17:15	Gravitational Settling in Solar-type Stars -- New Constraints	Andreas Korn
17:15-17:30	Hydrodynamical Simulations of Helium Shell Flash Convection	Bernd Freytag
19:00-20:00	Nordenmarkföredrag ( <u>in 'Siegbahnsalen'</u> ): Kvällshimlens stjärnor - lyser de för evigt?	Marie Rådbo
20:00-22:00	Refreshments (for REGISTERED participants ONLY)	

**Saturday (Oct. 22):**

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**Session E - Chair: Melvyn Davies**

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9:00-9:30	Chemistry and star formation in active galaxies	Susanne Aalto (invited)
9:30-9:45	Lyman alpha galaxies at high- and low-redshift	Matthew Hayes
9:45-10:00	The Dynamics of Blue Compact Galaxies: Gas and Stars	Thomas Marquart
10:00-10:15	Progress in searches for primordial resonant lines using the Odin satellite	Carina Persson
10:15-10:30	Removing noise from astronomical data: a wavelet code for the Swedish community	Alessandro Romeo
10:30-11:00	Coffee Break	

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**Session F - Chair: Hans Rickman**

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11:00-11:30	Populärastronomiska stilideal under tidigt svenskt 1900-tal	Johan Kärnfelt (invited)
11:30-13:00	Current and future resources for Swedish astronomy: Discussion around five topics to be introduced by short talks as follows: <ul style="list-style-type: none"> <li>• Claes Fransson (ESO + VR/KFI)</li> <li>• Lennart Nordh (ESA, Odin, etc.)</li> <li>• Johannes Andersen (NOT)</li> <li>• Lars-Åke Nyman (APEX)</li> <li>• Hans Olofsson (Onsala)</li> </ul>	
13:00-13:05	Closing	----