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Palermo, Italy 3-4 February 2006	Grid Technology for Financial Modeling and Simulation	Expected in Winter 2006
Coimbra, Portugal 12-15 January 2006	International Workshop on Top Quark Physics	Expected in Spring 2006
Budapest, Hungary 1-3 August 2005	29th Johns Hopkins Workshop on Current Problems in Particle Theory	Expected in Winter 2006
Bangalore, India 31 Aug - 2 Sep 2005	International Conference on Statistical Mechanics of Plasticity and Related Instabilities	Expected in Winter 2006
Lisboa, Portugal 21-27 Jul 2005	HEP2005 International Europhysics Conference on High Energy Physics	Expected in Winter 2006

### recent conferences

Baltimore, Maryland 5-8 Jun 2004	28th Johns Hopkins Workshop on Current Problems in Particle Theory	PoS(JHW2004) November 2005
Roma, Italia 30 Mar - 1 Apr 2005	Control Systems: Theory, Numerics and Applications	PoS(CSTNA2005) November 2005

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<a href="#">all conferences</a> <a href="#">for organizers</a> <a href="#">for chairmen</a> <a href="#">for authors</a> <a href="#">for all readers</a>		
Invited talk		
Andrea Ferrara	First stars and the cosmic dawn	<a href="#">BDMH2004-abstracts/001.pdf</a>
Luigi Danese	A physical model for formation and evolution of QSOs and of their spheroidal hosts	<a href="#">BDMH2004-abstracts/003.pdf</a>
Peter Schuecker	Present and future applications of galaxy clusters in cosmology	<a href="#">BDMH2004-abstracts/007.pdf</a>
Peter Schneider	Weak lensing as a probe of the dark matter distribution	<a href="#">BDMH2004-abstracts/013.pdf</a>
Andreas Burkert	The structure of cold dark matter halos and the nature of dark matter	<a href="#">BDMH2004-abstracts/017.pdf</a>
Piero Rosati	Cold and hot baryons in the most distant galaxy clusters	<a href="#">BDMH2004-abstracts/022.pdf</a>
Sabine Schindler	Interaction of galaxies with the intra-cluster medium and ICM metal enrichment	<a href="#">BDMH2004-abstracts/023.pdf</a>
Magda Arnaboldi	Diffuse light in clusters of galaxies	<a href="#">BDMH2004-abstracts/026.pdf</a>
Angela Iovino	Groups of galaxies	<a href="#">BDMH2004-abstracts/030.pdf</a>
Bianca Poggianti	Evolution of galaxies in clusters	<a href="#">BDMH2004-abstracts/035.pdf</a>
Bernd Vollmer	Galaxy evolution in the virgo cluster	<a href="#">BDMH2004-abstracts/036.pdf</a>
Frank Van den Bosch	The galaxy-dark matter connection	<a href="#">BDMH2004-abstracts/041.pdf</a>
Reynier Peletier	The formation of galactic bulges	<a href="#">BDMH2004-abstracts/060.pdf</a>
Rodrigo Ibata	The formation of the Milky Way	<a href="#">BDMH2004-abstracts/069.pdf</a>
Francesca Matteucci	Chemical evolution of galaxies and galaxy formation mechanisms	<a href="#">BDMH2004-abstracts/072.pdf</a>
Contributed talk		
Philipp Richter	Baryons in the Warm-hot Intergalactic Medium	<a href="#">BDMH2004-abstracts/002.pdf</a>

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The screenshot shows the PoS website interface. On the left, there is a navigation menu with links for 'all conferences', 'for organizers', 'for chairmen', 'for authors', and 'for all readers'. Below this is a table of 'Invited talk' entries. The main content area displays a preview of a paper titled 'First Stars and the Cosmic Dawn' by A. Ferrara, published by SISSA. The paper's abstract discusses the appearance of the first stars and the occurrence of various physical effects like cosmic reionization and intergalactic medium metal enrichment. A vertical label 'POS (BDMH2004) 001' is visible on the right side of the paper preview.

Invited talk	
Andrea Ferrara	First stars
Luigi Danese	A physical sphere
Peter Schuecker	Presentations
Peter Schneider	Weak lensing
Andreas Burkert	The structure of dark matter halos
Piero Rosati	Cold dark matter
Sabine Schindler	Interaction and enrichment
Magda Arnaboldi	Diffuse radiation
Angela Iovino	Group dynamics
Bianca Poggianti	Evolution of galaxies
Bernd Vollmer	Galaxy clusters
Frank Van den Bosch	The galaxy cluster environment
Reynier Peletier	The formation of galaxies
Rodrigo Ibata	The formation of galaxies
Francesca Matteucci	Chemical evolution
Contributed talk	
Philipp Richter	Baryonic dark matter

**First Stars and the Cosmic Dawn**

**A. Ferrara**  
SISSA

The appearance of the first stars when the universe was only 100 Myr old marked the Cosmic Dawn and the occurrence of a number of physical effects (cosmic reionization, intergalactic medium metal enrichment, black hole formation, magnetic field cosmogenesis and - obviously - galaxy formation) which are now entering the realm of the observability and are strongly governed by so-called 'feedback effects'. I will review these physical processes at high redshift ( $z > 5$ ) and their detectable imprints, and propose a number of experiments which could yield the first observational signals from the Dark Ages of the universe.

POS (BDMH2004) 001

BDMH 2004 - Baryons in Dark Matter Halos  
5-9 October 2004  
Novigrad (Croatia)

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