

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)*

