ID de Contribution: **136** Type: **Talk**

JWST Detecting Dark Stars

jeudi 29 juillet 2010 14:20 (20 minutes)

DM (dark matter) is essential for the formation of structure and the first stars in particular. If DM is a common thermal WIMP (for instance the LSP), DM heating due to annihilation of DM can dramatically alter the formation of the first stars. These "dark stars" are powered by DM and look dramatically different from typical stars. Dark stars would have been only a few hundred million years after the Big Bang, but may be detectable with JWST. They also can account for super massive black holes and may also explain the metallicity in metal poor stars.

Auteur principal: Dr SPOLYAR, douglas (FermiLab/ University of Chicago)

Orateur: Dr SPOLYAR, douglas (FermiLab/ University of Chicago)

Classification de Session: Parallel Session : Structure Formation & N-body simulations 3