

APR06-2006-020016

Abstract for an Invited Paper
for the APR06 Meeting of
the American Physical Society

Dark matter detection and galactic halo models

PIERRE SIKIVIE, U. of Florida and CERN

Reliable knowledge concerning the structure of galactic halos is of paramount importance to direct and indirect searches for dark matter on Earth. Nonetheless no consensus has been reached at present on any detailed model of the Milky Way halo. I'll discuss the three main approaches which have been pursued, the assumptions underlying each approach, and the predictions each approach makes for signals in dark matter searches.