Contribution ID: 81 Type: not specified

Indirect Search for Light Dark Matter with X-rays

Wednesday, 28 August 2013 15:20 (20 minutes)

I summarize the constraints placed on two well-motivated dark matter candidates that produce an X-ray line via radiative decay – the sterile neutrino and moduli dark matter – from our dedicated X-ray search for dark matter targeting dwarf spheroidal galaxies, as well as from related investigations. I also anticipate the increase in sensitivity expected to emerge from current and upcoming efforts to deepen the search utilizing stacking of existing archival data, and observations with the high energy resolution Soft X-ray Spectrometer – the featured detector aboard the Astro-H X-ray Observatory scheduled for a 2015 launch.

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Session Classification: Indirect searches for dark matter