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The effects of contamination on the estimation of dark matter annihilation profile of the Milky Way's dwarf spheroidal galaxies

Thursday, 6 June 2019 10:30 (45 minutes)

I will present our collaborative effort to obtain a robust constraint on the expected gamma-ray flux from dark matter annihilation events in the Milky Way's dwarf spheroidal satellite galaxies. We have built a new statistical method to take into account the effects of contaminating foreground stars to the estimate of dark matter profile based on stellar kinematic measurements. The results of testing our method using mock stellar samples and the future prospects with the Prime Focus Spectrograph on the Subaru Telescope will be presented.

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Session Classification: JHW