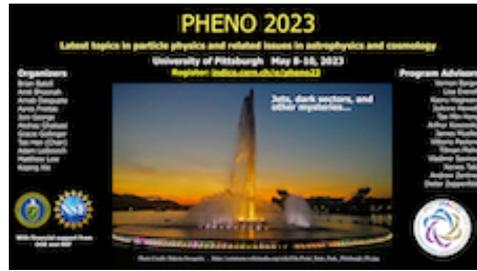


Phenomenology 2023 Symposium



Contribution ID: 143

Type: not specified

Search for inelastic dark matter with the CMS detector

Tuesday 9 May 2023 17:00 (15 minutes)

A new paradigm for dark matter searches, allows to focus not only on the coupling between dark matter and the Standard Model, but also on the interactions between dark matter constituents themselves. The LHC is in a unique position to investigate such a rich dark sector which is otherwise difficult to probe with direct and indirect detection techniques. In this talk, a recently published search for dark matter with the CMS detector, using inelastic dark matter (iDM) predictions as a guide, is presented.

Authors: REINSVOLD HALL, Allison (Fermilab); FRANKENTHAL, Andre (Princeton University (US)); JAY-ATILAKA, Bo (Fermi National Accelerator Lab. (US)); ALEXANDER, James (Cornell University); THOM, Julia (Cornell University); BRIGHT-THONNEY, Samuel Kai (Cornell University (US))

Presenter: BRIGHT-THONNEY, Samuel Kai (Cornell University (US))

Session Classification: BSM X

Track Classification: BSM