## Phenomenology 2013 Symposium



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## Sommerfeld Enhancement of Self-Interacting Dark Matter

Tuesday 7 May 2013 17:45 (15 minutes)

We present new results for the Sommerfeld enhancement of self-interacting dark matter, focusing on results from singular potentials generated by the relevant quantum field theory operators. We show how these models are consistently renormalized and give bounds on the enhancement. These results constrain models through connections with astrophysics using halo shapes and substructure.

Authors: BELLAZZINI, Brando (U); TANEDO, Flip; CLICHE, Mathieu (C) Presenter: CLICHE, Mathieu (C) Session Classification: DM III