## Phenomenology 2016 Symposium



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## Low energy neutrinos from dark matter annihilation to hadrons in the Sun

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Hunting for neutrinos arising from captured dark matter annihilating in the Sun has long been one of the main indirect-detection search strategies. This strategy, however, has been thought to be largely insensitive to dark matter which annihilates purely to light quarks. In this talk I will discuss prospects for probing these types of models by focusing on  $\text{textit}\{\text{monoenergetic}\}$  neutrinos, which arise from decays of hadronic annihilation byproducts which are stopped within the core of the Sun. I will show that we can obtain competitive and complementary sensitivities for few-GeV dark matter using this strategy.

## **Summary**

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