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TALK: Dark matter at the high mass frontier

Monday, June 17, 2024 3:00 PM (45 minutes)

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A number of theories predict that dark matter is a supermassive particle or composite state. Discovering dark matter in this high mass regime requires different approaches. I will survey recent developments, including composite dark matter that produces unique signatures in underground experiments and dark matter detectable through thermonuclear reactions in Antarctic ice. I will also survey certain experiments from the 80s and 90s, which still provide the best sensitivity to many varieties of high mass dark matter.

Presenter: BRAMANTE, Joe (Queen's University)