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Unveiling the self-coupling of dark matter with galaxy clusters

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Recent studies into the dynamics of galaxy clusters and galaxy cluster members have revealed potential signatures of self-interacting dark matter. In this talk I will discuss the current evidence that supports this hypothesis and the observational signals that self-interacting dark matter may manifest itself as. I will finish by presenting current work and observations from the worlds best telescopes that continue to probe this potentially revealing property of the Universe's most mysterious matter.

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