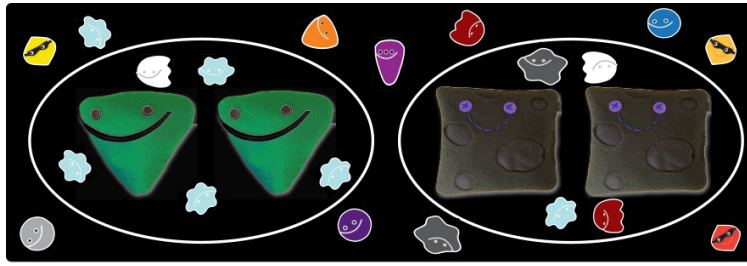


Quarkonia meet Dark Matter



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Thermal Real Scalar Triplet Dark Matter by Yu Watanabe

Tuesday 15 June 2021 23:20 (35 minutes)

Real scalar triplet dark matter, which is known to be an attractive candidate for a thermal WIMP, is comprehensively studied paying particular attention to the Sommerfeld effect on the dark matter annihilation caused by the weak interaction and the other interaction between the dark matter and the Higgs boson. We find a parameter region that includes the so-called 'WIMP-Miracle' one is still surviving, i.e. it respects all constraints imposed by dark matter searches at collider experiments, underground experiments (direct detection) and astrophysical observations (indirect detection). The region is also found to be efficiently searched for by various near future experiments. In particular, the XENONnT experiment will cover almost the entire parameter region.

Presenter: Mr WATANABE, Yu (UTokyo)

Session Classification: Poster session (Gather town)