## **Department of Theoretical Physics**



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## Dark matter from light sterile neutrino nuggets Tuesday, 12 February 2019, 13:00 Room A304

From cosmological observations we know that dark matter must display clustering properties similar to cold dark matter (CDM) at least on the largest scales. However, the particle nature of DM is still not known. At smaller scales the situation remains unclear from astrophysical observations which do not agree well with CDM predictions. Non-detection of CDM in direct search experiments and small scale astrophysical anomalies might be giving us strong hints to look for other particle physics candidates of dark matter arising from different physics. I will discuss one such scenario where dark matter arises much later in the universe though formation of nuggets when sterile neutrinos clump together few e-foldings before CMB.



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