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Warm dark matter

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If dark matter particles were relativistic deeply within the radiation-dominated epoch ("warm" dark matter), the formation of structures would be altered at scales below their "free-streaming horizon" as compared to the standard Lambda-CDM concordance model. Such modifications would results in the reduced abundance of structures at galactic scales and below. In this talk I will overview properties of warm dark matter candidates, their signatures and observational probes of warm dark matter paradigm.

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