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Constraining the dark matter by 21cm signals

Thursday 10 September 2015 16:50 (20 minutes)

The future prospects for the constraints on the particle dark matter from the 21cm signals will be presented. The effects of the dark matter interactions with the baryons on the 21 cm observables will be discussed, along with its comparison with the complementary bounds from the direct dark matter search experiments. I will also discuss the 21 cm bounds on the ultra light dark matter which can ubiquitously arise in the early Universe, such as pseudo-Goldstone bosons from the spontaneous breaking of an approximate symmetry.

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Session Classification: Dark Matter