

WIMPy baryogenesis with Primordial Black Hole

We propose a model of baryogenesis achieved by the annihilation of non-thermally produced WIMPs from Primordial Black Hole (PBH). Dark Matter (DM) particles can be produced by PBH evaporation and consequently re-annihilate into lighter particles even after thermal freeze-out. The re-annihilation of DM provides the observed baryon asymmetry and the correct relic abundance of DM depending on the PBH evaporation temperature.

Presenter: LKHAGVADORJ, Erdenebulgan (Sungkyunkwan University)

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