

Beyond-WIMP DM models and constraints from anomalous strong-lens systems

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“A weakly interacting massive particle (WIMP) from electroweak-scale new physics have been a promising candidate of cold dark matter (CDM).

Meanwhile beyond-WIMP DM models attract interests partially because they may explain the possible issues in CDM: tension between early and late cosmology in H_0 ; and challenges in explaining the observed Galactic-scale structure.

I overview beyond-WIMP DM models and their cosmological implications, particularly explaining a relatively new possibility: late-decaying dark matter (LDDM).

I stress that anomalous strong-lens systems have a good potential to probe beyond-WIMP DM models, by showing the constraints from existing data.”

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