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Dark atom solution for puzzles of direct dark matter searches

The puzzles of direct dark matter searches can find solution in the model of dark atoms, containing stable -2 charged lepton-like heavy particle bound by ordinary Coulomb interaction with primordial helium 4 nuclei. Specific properties of this nuclear interacting dark matter can explain positive results of DAMA/NaI and DAMA/LIBRA experiments and negative results in cryogenic and heavy nuclei (like xenon) detectors. Open questions of dark atom nuclear interaction with matter are discussed.

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