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Formation of small self-interacting dark matter component

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In the report, self-interacting dark matter is considered. It is supposed that it can form bound states (with possible successive annihilation) due to long-range dark forces. In the course of cosmological evolution, such dark matter may form two components: “passive” one in the form bound-states and “active” (possibly small) one in the form of free dark-charged dark matter particles. Such scenario may have implications for different astrophysical and cosmological issuses.

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