

The Modern Physics of Compact Stars and Relativistic Gravity

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Giant Monopoles as a Dark Matter Candidate

I will review recent challenges to WIMP dark matter models and describe how some of them are addressed by giant monopole models. Several consistency checks of such models will be described, including consistency with MACHO bounds, the bullet cluster and the CMB power spectrum. The main prediction of such models is that dwarf galaxies are embedded in halos which extend for tens of kpc, often beyond their tidal radius, which would be impossible for gravitationally bound particulate dark matter. This may explain the anomalously high abundance and relative velocities of dwarf galaxy pairs recently observed by Fattahi, Navarro, et al.

Primary author: Prof. EVSLIN, Jarah Markar (IHEP, Chinese Academy of Sciences)

Presenter: Prof. EVSLIN, Jarah Markar (IHEP, Chinese Academy of Sciences)