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Dark Astronomical Compact Objects in Inflationary Dark Matter model

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Nearly 80% of matter in the Universe is dark matter although its nature is as mysterious as its name. By using the dark matter in Inflationary Dark Matter model proposed by P. Q. Hung and P. Frampton, we examine the possibility of the formation of Dark Astronomical Compact Objects (DACOs) along with their physical properties such as masses, radii and their stability. We also propose an energy dissipation mechanism, which is a requirement for a dark matter gravitationally bounded system to be formed.

Summary

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