

Abstract Submitted
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Conformal Gravity Rotation Curve of the Milky Way Galaxy

JAMES O'BRIEN, ROBERT MOSS, Wentworth Institute of Technology — Galactic rotation curves have proven to be the testing ground for dark matter bounds in galaxies, and our own milky way is one of many large spiral galaxies that must follow the same models. Here, we present synthesis mass models of milky way rotation data and apply the fitting procedure of Conformal Gravity. We find that like the other already published 200 plus galactic rotation curves, the Milky Way galaxy follows the same trend observed that a fantastic fit can be achieved without the need for involving dark matter. Specifics of the fitting procedure will be discussed as well as comparisons to other alternative gravitational theories such as MOND.

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