



The dark halo in the spiral galaxy NGC 755

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The radial density distribution in dark matter halos of galaxies derived from numerical ^CDM simulations is universal and scale invariant. Rotation curves are an important tool to put these predictions to the test. In order to obtain an extended rotation curve of the spiral galaxy NGC 755 we applied a new method to fit tilted rings to data acquired with the VLA. Our results were combined with existing results from optical spectroscopy to provide the highest possible spatial resolution towards the center. We will present the resulting rotation curve and its implications for the density distribution in this galaxy's dark matter halo.

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