

Abstract Submitted
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Galactic mass distribution without dark matter or modified Newtonian mechanics KENNETH NICHOLSON, retired engineer, Caltech alumni — Given the dimensions (including thickness) of a galaxy, and its rotation profile, a method is arranged to find the mass and density distribution in the defined envelope that will cause that rotation profile with near-exact speed matches. Newton's law is unchanged. Surface-light intensity and dark matter are not needed. Results are presented in dimensionless plots allowing easy comparisons of galaxies.

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