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John W Moffat* (jmoffat@perimeterinstitute.ca), Perimeter Institute, Waterloo, Ontario
N2L 2Y5, Canada. *Title: Modified Gravity and Dark Matter.*

Abstract: A modified gravitational theory is developed that can explain structure growth and the Planck cosmic microwave background (CMB) data. The rotation curves of galaxies and the dynamics of galaxy clusters are successfully determined without exotic dark matter. The modified gravity (MOG) theory is compatible with observational data from the solar system to cosmological Mega parsec scales. (Received August 18, 2014)