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Precession of Mercury and Bending of Starlight Using Gravitational Emission Theory GARY HUNTER, JAMES ESPINOSA, JULIE TALBOT, University of West Georgia — The precession of the perihelion of Mercury and the bending of starlight by the Sun are calculated exactly by modifying Newton's Theory of Gravitation. Assuming for gravity a propagation speed equal to that of light, we derive and solve an equation that includes the relative velocity between two objects. Analytical and numerical results are presented and the relevance to experiment is discussed.

Gary Hunter
University of West Georgia

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