

Abstract Submitted
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Einstein's Tests of General Relativity Through the Eyes of Newton GARY HUNTER, JAMES ESPINOSA, JULIE TALBOT, University of West Georgia — Einstein suggested three possible tests of his Theory of General Relativity: 1) bending of starlight by the Sun, 2) precession of Mercury's orbit, and 3) gravitational redshift of spectra. Experimental and observational results of these tests are in excellent agreement with GR. We reinterpret these experiments and observations completely within the framework of Newtonian physics. We formulate a law of gravity that assumes this force travels at the speed of light and, when combined with Newton's second law, arrive at results identical to those of Einstein's theory. The steps leading to an analytical expression will be discussed.

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