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Skills you will learn or practice: Calculate velocity and acceleration from experimental measurements of x vs t (spark positions) Find average velocities from two positions and times, and average accelerations from two velocities and times Sketch $v(t)$ from the slope of $x(t)$ and $a(t)$ from the slope of $v(t)$ Extract physical constants from polynomial ...

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Chapter 5. Gravitation Notes: Most of the material in this chapter is taken from Young and Freedman, Chap. 13. 5.1 Newton's Law of Gravitation We have already studied the effects of gravity through the

consideration of the gravitational acceleration on earth g and the associated potential gravitational energy U_{grav}

Chapter 5. Gravitation - Physics and Astronomy

Observatory simultaneously observed a transient gravitational-wave signal. The signal sweeps upwards in frequency from 35 to 250 Hz with a peak gravitational-wave strain of 1.0×10^{-21} . It matches the waveform predicted by general relativity for the inspiral and merger of a pair of black holes and the ringdown of the resulting single black hole.

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GRAVITATIONAL WAVE PHYSICS - Universität Tübingen

Physics > Optics Title: Extraction of energy from gravitational waves by laser interferometer detectors

Authors: Yiqiu Ma , David G Blair , Chunnong Zhao , William Kells

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