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Lasers in the Undergraduate Laboratory: Precision Measurement for the Masses

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Lasers are essential components of a huge range of modern ultra-precise measurements, from LIGO to laser-cooled atomic clocks to femtosecond frequency comb sources. I will describe some experiments at the undergraduate level that, while they do not match the astonishing precision of these measurements, introduce students to the use of lasers as tools for precision measurement.