

<b>Title</b>	Precision spectroscopy using a partially stabilized frequency comb
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<b>Abstract</b>	<p>We present a simple method for precision spectroscopy using an optical frequency comb. One mode of a 1 GHz repetition rate mode-locked Ti:sapphire laser is offset-locked to an Rb-stabilized diode laser. This partially stabilized frequency comb stays locked, unattended, for hours at a time. Using the measured offset frequency and repetition rate, we calculate the frequency of each comb mode with absolute uncertainty of about 10 kHz in a 10 s measurement window. We demonstrate the capabilities and limitations of this approach with measurements in Rb, Cs, and Ca.</p>
<b>Laser Quantum Product</b>	<b>gigajet, finesse pure CEP</b>
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