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of 0.1 Hz, yielding a residual transmission of (9 \pm 3) \times 10^-3 for more than an hour. Simultaneously, the frequency of the resonator mode is actively stabilized.

The evanescent coupling of light between a whispering-gallery-mode bottle microresonator and a

technique. We demonstrate the stabilization of a critically coupled resonator with a control bandwidth

sub-wavelength-diameter coupling fiber is actively stabilized by means of a Pound-Drever-Hall

Comments: 3 pages, 3 figures. Minor changes in the text, references added, typo in figure corrected

Subjects: **Optics (physics.optics)**

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Bottle microresonator with actively

(Submitted on 26 Jul 2011 (v1), last revised 9 Aug 2011 (this version, v2))

stabilized evanescent coupling

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