

Millimeter Wave Generation by Off-Locking Optical Injection in a DFB Laser Diode

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We injected CW light from a single-mode laser into the cavity of a second one, with a frequency detuning outside the locking range. After detection with a fast photodiode we observed beat notes, in the 15-45 GHz range, narrower than 100 kHz, i.e. much less than the 2.2 MHz natural beat note linewidth, observed in the absence of injection.

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