Contribution ID: **140** Type: **poster**

Coherence Transfer from Ultrastable Optical Frequency Comb to CW Laser with Feed-forward Method

Monday 1 July 2019 18:00 (2 hours)

We report a precision feed-forward locking between a 1064 nm continuous wave (CW) and an ultrastable optical frequency comb. The relative linewidth of the 1064 nm CW laser is narrowed to 1.14 mHz and the stability reaches 1.5×10^{-17} at 1 s at the optical wavelength of 1064 nm.

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Session Classification: Poster session 1