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

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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.

Authors: SHAO, Xiaodong (Institute of Physics, Chinese Academy of Sciences); HAINIAN, Han (Institute of Physics, Chinese Academy of Sciences); YABEI, Su (Institute of Physics, Chinese Academy of Sciences); HUIBO, Wang (Institute of Physics, Chinese Academy of Sciences); ZIYUE, Zhang (Institute of Physics, Chinese Academy of Sciences); SHAOBO, Fang (Institute of Physics, Chinese Academy of Sciences); GUOQING, Chang (Institute of Physics, Chinese Academy of Sciences); ZHIYI, Wei (Institute of Physics, Chinese Academy of Sciences)

Presenter: SHAO, Xiaodong (Institute of Physics, Chinese Academy of Sciences)

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