Erratum

Optical frequency synthesis and measurement using fibre-based femtosecond lasers

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Due to an error in estimating phase noise data of the Yb⁺ frequency standard for 43 THz from the measured Allan deviation obtained at 172 THz the dashed-dotted, green line in Figure 4 – shown for comparison only – is incorrect.

Figure 4 should be replaced with the following one.

Fig. 4. (Color online) Phase noise spectral density of the transfer beat at a virtual carrier frequency of 43 THz derived with comb1 (in loop, grey circles) and comb2 (out-of-loop) for different settings of the gain of the phase-locked loop (PLL, in Fig. 1) and approximation by a constant phase noise level of -60 dBc/Hz for 3 Hz < f < 3 kHz (blue line). For comparison, the phase noise of the Yb master laser as estimated from previous frequency measurements is shown as dashed-dotted green line. The resolution bandwidth of the spectrum analyser was set to 1 Hz.

None of the discussions and conclusions of the paper are affected.

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