



Figure 2: III-V-on-Si frequency comb generator. (a) Spectrum, on a linear y-scale, measured with an optical spectrum analyzer. The spectral density of optical power in the comb is scaled to its on-chip value. **(b)** Single-sideband phase noise of the repetition-frequency beat signal in its fundamental mode (1 GHz) in free-running (blue) and electrical injection-locking (red) modes.