

Electro-optomechanical modulation instability in a semiconductor resonator: Supplements

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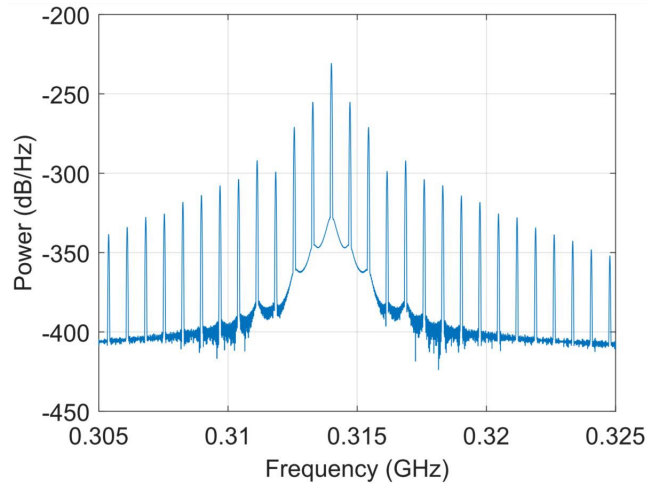


FIG. 1: Mechanical comb controlled by light. Spectrum of the pulsing mechanical motion shown in Fig. 4c of the main text, obtained by Fast Fourier Transform using a Kaiser window.

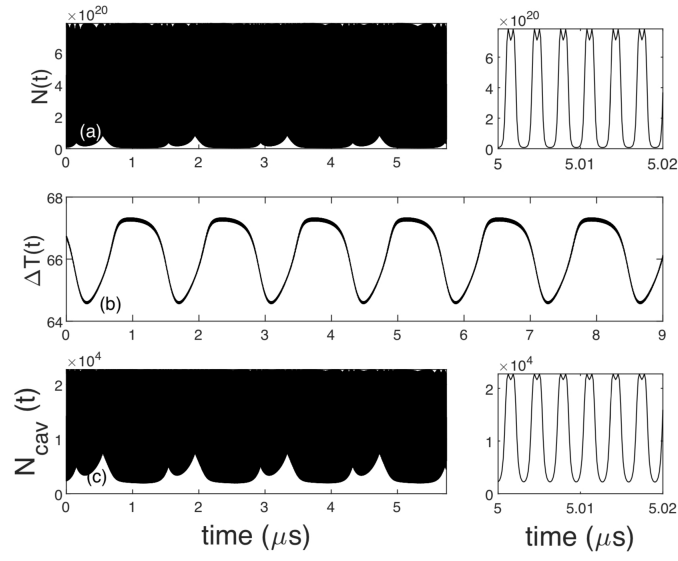


FIG. 2: Time evolution of the variables involved in the electro-optomechanical instability. (a) Free-carrier density, (b) Temperature elevation, (c) Intracavity photon number, as a function of time. Time traces are calculated from the model introduced in the main text, under the conditions of Fig. 3.