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Parametric processes in a cavity resonator terminated with a DC-SQUID FRANCOIS NGUYEN, EVA ZAKKA BAJJANI, NIST Boulder, MINHYEA LEE, University of Colorado, LAFE SPIETZ, LEILA VALE, RAYMOND SIMMONDS, JOSE AUMENTADO, NIST Boulder — The coplanar waveguide resonators with SQUIDs have become common to several recent superconducting quantum information experiments. In this talk, we will present some recent results which demonstrate the manipulation of the internal harmonic modes of a microwave cavity resonator using a flux-driven SQUID as a parametric mode mixing resource.

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