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Phase noise measurements in TRIUMF ISAC 2 cryomodule

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The phase noise spectra of the superconducting cavities of the ISAC 2 cryomodule and of the test cryostat were measured under various conditions. Analysis of the results show that the major contributors to this phase noise are microphonics, including those from the superconducting cavities, the cryomodule and the power amplifiers, each of which can be identified with their unique signatures. The results also show the effectiveness of the phase stabilizing loop in suppressing these noise components. These measurements have become a useful diagnostic tool to identify the various noise sources and verify the effectiveness of their suppression.

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