Optical Cavity for AFM Detection

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**GOAL**
To fabricate an integrated sensor combining a nanomechanical cantilever probe with a high sensitivity nanophotonic interferometer on a single silicon chip.

**KEY ACCOMPLISHMENTS**
Demonstrated sensitive measurement of the motion of a nanoscale cantilever using a microdisk resonator fabricated on the same device layer. Used light to adjust the cantilever’s mechanical properties.

**REFERENCE**