

## Workshop on Microwave Cavity Design for Axion Detection

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### 4-9 GHz Cavity Development at CAPP

*Wednesday, 26 August 2015 09:00 (35 minutes)*

I will present our experiences with developing expertise at cavity design. We were given a chance to run parasitically in an 8T magnet with a 60mm bore. This drove our choice of frequency regime. Because of the fixed geometry of the refrigerator and magnet we were required to have all mechanisms and actuators in close proximity to the dilution refrigerator and in a fringe field of 100-300G. We took this as an opportunity to also develop experience and expertise using piezo actuators.

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