

## Optically pumped magnetometer for a low frequency axion detector

The most sensitive cryogen-free magnetic-field sensor is an optically pumped magnetometer. At LANL, we will investigate its use in an LC-circuit style axion search around 300 kHz, operating at room temperature. The tunability of the OPM means that only one magnetometer is required to search a significant range of low frequencies, between ~1 kHz and 1 MHz, with an existing OPM.

**Primary author:** DUFFY, Leanne (Los Alamos National Laboratory)

**Presenter:** DUFFY, Leanne (Los Alamos National Laboratory)