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Optically Pumped Magnetometer as a Low Frequency Axion Detector[1] LEANNE DUFFY, PINGHAN CHU, YOUNG JIN KIM, IGOR SAVUKOV, AL URBAITIS, Los Alamos National Laboratory — We are testing the use of an optically pumped magnetometer as a sensitive magnetic field detector for a dark matter axion search with an LC circuit. We have optimized the experimental design with a 2 T magnet available at Los Alamos National Laboratory. The magnet is being recommissioned, and we report on the progress and sensitivity of this experiment, and possible upgrades.

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