

Abstract Submitted
for the APR16 Meeting of
The American Physical Society

The ARIADNE axion NMR experiment ANDREW GERACI, Univ of Nevada - Reno, ARIADNE COLLABORATION — The Axion Resonant Interaction Detection Experiment (ARIADNE) is a collaborative effort to search for short-range spin-dependent couplings between nuclei resulting from the QCD axion, using a technique based on nuclear magnetic resonance. The aim is to detect monopole-dipole interactions between the spin of ^3He nuclei and a rotating unpolarized tungsten attractor. I will discuss the basic principle of the experiment and the current experimental status, as well as several of the anticipated technical challenges involved in these types of measurements.

Andrew Geraci
Univ of Nevada - Reno

Date submitted: 08 Jan 2016

Electronic form version 1.4