

Abstract Submitted  
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**The Sensitivity of the ANITA Experiment to Magnetic Monopoles**<sup>1</sup> MILES DETRIXHE, University of Kansas, ANITA COLLABORATION — The ANITA (Antarctic Impulsive Transient Antenna) experiment is a balloon-borne antenna array designed to detect Cherenkov radiation produced by ultra-high energy neutrino interactions with the Antarctic ice. Magnetic monopoles are hypothetical particles that also produce Cherenkov radiation in the radio regime. The first ANITA flight in 2006-07 illustrated the extreme sensitivity of ANITA to relativistic magnetic monopoles. The second flight (2008-09) flew with much more live time. I will discuss the potential ANITA's second flight has for detecting ultra-relativistic magnetic monopoles and a method for doing so.

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