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ANITA-II Ultra-Relativistic Magnetic Monopole Search Strategy and Results MILES DETRIXHE, DAVE BESSON, 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-ice interactions. ANITA-II (2008-2009) was aloft for 31 days at an altitude of $\approx$ 35,000m. This large detector area and live time makes ANITA-II the most sensitive experiment to date for detection of the extended energy deposition trails left by ultra-relativistic magnetic monopoles interacting in Antarctic ice. I will discuss our search strategy and the results obtained.

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