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Cosmic Ray Induced Bit-Flipping Experiment[1] EDWARD CALLAGHAN, MATTHEW PARSONS, Undergraduate Physics, Drexel University — CRIBFLEX is a novel approach to mid-altitude observational particle physics intended to correlate the phenomena of semiconductor bit-flipping with cosmic ray activity. Here a weather balloon carries a Geiger counter and DRAM memory to various altitudes; the data collected will contribute to the development of memory device protection. We present current progress toward initial flight and data acquisition. This work is supported by the Society of Physics Students with funding from a Chapter Research Award.

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