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Limits on cosmological b-mode polarization from Spider

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Spider is a CMB polarimeter designed for the Antarctic Long Duration Balloon platform. Spider has completed one flight of the two-flight program. In the first flight, Spider has mapped the astrophysical linear polarization over about 10% of the full sky, with significantly greater sensitivity than Planck HFI in the same region. We report limits to the cosmological B-mode polarization that are derived from a subset of these data, corresponding to about 6% of the full sky, and discuss the plans and prospects for the upcoming flight.

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