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Foreground Component Separation for SPIDER's Primordial B-mode Constraint JOHANNA NAGY, Washington University, St. Louis — Separating polarized Galactic foreground signals from the cosmic microwave background is a significant challenge for current and future experiments searching for evidence of primordial gravitational waves. In this talk I will review the two component separation techniques used for SPIDER's primordial B-mode constraint from the 2015 flight data. One method uses a template derived from Planck data to subtract the Galactic dust signal from the maps, while the other employs a joint analysis of SPIDER and Planck data in the harmonic domain. Together these two independent techniques probe the sensitivity of the cosmological result to the assumptions made by each

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