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Phase-harmonic generative models for likelihood-free polarization foreground marginalization

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I will present single frequency morphological foreground removal and denoising using deep learning (in a Bayesian likelihood-free framework) using phase harmonic augmentation. With only a single training image of polarized dust foregrounds, we are able to generate new realisations using wavelet phase harmonic synthesis. In a likelihood-free inference framework, these new realisations can be used for Bayesian foreground map-cleaning (using high dimensional Moment Networks) and cosmological parameter inference.

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