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HAWC+/SOFIA Instrumental Polarization Calibration JOSEPH M. MICHAIL, Villanova University, Department of Astrophysics and Planetary Science, DAVID T. CHUSS, JAVAD SIAH, Villanova University, Department of Physics, C. DARREN DOWELL, Jet Propulsion Laboratory, JOHN E. VAILLANCOURT, SOFIA/USRA, THE HAWC+ INSTRUMENT TEAM TEAM — HAWC+ is a new far-infrared polarimeter for the NASA/DLR SOFIA (Stratospheric Observatory for Infrared Astronomy) telescope. HAWC+ has the capability to measure the polarization of astronomical sources with unprecedented sensitivity and angular resolution in four bands from 50-250 microns. Using data obtained during commissioning flights, we implemented a calibration strategy that separates the astronomical polarization signal from the induced instrumental polarization. The result of this analysis is a map of the instrumental polarization as a function of position in the instrument's focal plane in each band. The results show consistency between bands, as well as with other methods used to determine preliminary instrumental polarization values.

Joseph M. Michail
Villanova University

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