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Abstract:

The supernova remnant (SNR) IC 443 shows strong emission across a broad wavelength and its interaction with atomic and molecular gas has been extensively studied. However, the magnetic field has been overlooked due to the lack of high sensitivity and high resolution polarization observations. We propose to conduct a continuum and polarization observation of SNR IC 443 to reveal its magnetic field structure. This will help us to understand the role that magnetic field plays in the evolution of this SNR.