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## Modeling EUV intensity at the top of the transition region using SPICE data on board Solar Orbiter

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The Spectral Imaging of Coronal Environment (SPICE; SPICE Consortium et al. 2020) provides an extraordinary opportunity to study the chromosphere and transition region using EUV wavelengths, e.g., Ne VIII 770 Å, C III 977 Å, O VI 1032 Å, and Lyman-β 1025 Å. We present preliminary results modeling Ne VIII 770 Å intensity using images from SPICE and the COroNal DEnsity and Temperature (CODET) model. This model is based on relationships between the magnetic field, density, and temperature. It uses a flux transport model, the Potential Field Extrapolation model (PFSS), an emission model based on CHIANTI atomic database 10.0.2, and an optimization algorithm. In addition, we assume that the emission from the top of the transition region (Ne VIII 770 Å) can be described using the magnetic field in the coronal base at 1.014  $R_{\text{Sun}}$  (from PFSS).