We present an analysis of the Chandra/ACIS observation of the XA region on the eastern limb of the Cygnus Loop supernova remnant. The Cygnus Loop is a cavity remnant in which the supernova blast wave has only relatively recently encountered the walls of the cavity. The XA region is the result of the blast wave encountering a large cloud protruding into the cavity, and includes a variety of radiative and partially radiative shocks. We use the imaging and spectral capabilities of Chandra/ACIS together with narrow band optical images to analyze the properties of these shocks, including the spatial relationship between the partially radiative shocks (seen optically in narrow band [Ne V] emission) and the neighboring X-ray emission.

This work was supported by NASA grant G01-2060X and NASA contract NAS8-39073.