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The Origin of X-Ray Emission Lines From SS Cyg

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Abstract: SS Cyg is a dwarf nova binary star that undergoes frequent large amplitude outburst within a period of 40 days. SS Cyg was observed with the Chandra x-ray telescope in quiescence on 2000 August 24, and near the peak and early decline of a narrow outburst on 2000 September 12 and 14 (exposures of 47 and 96 ks). The spectrum of the source shows strong emission lines of O VII and O VIII in all three observations. These lines, we note, originate from the boundary layer.

 [Keywords](#)
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Key Words: Cataclysmic Variables, emission lines, SS Cyg, dwarf novas



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