The Bizarre Central Star of SuWt2

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Abstract. SuWt2 has been found to contain a double lined and eclipsing binary system. Surprisingly, both components appear to be A-type stars with masses of about 3 M\textsubscript{\odot} moving in essentially circular orbits with a period of 4.9 days. We see no indications of a hotter component in the optical or IUE spectra. We discuss the possibility that this is a triple system.

Deep H\alpha + [N II] images show the nebula to be an inclined ring (\&sim;60^\circ to the line of sight) while spectra show anomalous line ratios (eg I([N II] 6584) \gg I(H\alpha)) which maybe indicative of recombination in a changing radiation field. Further modeling is ongoing.

Figure 1. Narrow-band image of SuWt2. The faint bipolar lobes are only faintly visible on the original CCD image.

Figure 2. SuWt2 double lined radial velocity curve