FOURIER TRANSFORM EMISSION SPECTROSCOPY OF ScS

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The emission spectra of the $A^2\Pi - X^2\Sigma^+$ and $B^2\Sigma^+ - X^2\Sigma^+$ systems of ScS have been observed in the $10000 - 13500$ cm$^{-1}$ region using a Fourier transform spectrometer. A rotational analysis of the $0-1$, $0-0$ and $1-0$ bands of the $A^2\Pi_{3/2} - X^2\Sigma^+$ and $0-1$, $0-0$, $1-0$, $2-0$ and $3-1$ bands of the $B^2\Sigma^+ - X^2\Sigma^+$ systems has been obtained and improved spectroscopic constants have been extracted for the electronic states of ScS.