

## ESTIMATION OF ROTATIONAL TEMPERATURE OF $^{121}\text{Sb}^{16}\text{O}$ MOLECULE

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The (0,1), (0,0), (1,0) and (2,0) bands of B→X system of antimony monoxide have been excited in RF discharge tube source and photographed in the 9<sup>th</sup> order of a 2 - meter plane grating spectrograph (PGS-2). Intensity records of the rotational lines have been obtained. The intensity measurements of Q and P branch lines of the above four bands and J numberings are used to estimate the effective rotational temperature of the source emitting the spectrum of  $^{121}\text{Sb}^{16}\text{O}$  molecule. It is concluded that  $^{121}\text{Sb}^{16}\text{O}$  may be present in K type stars.