P Halley may be the important constituent for the formation of H_3 molecule. The excitation mechanism of H_3 molecule may be as follows:

$$H_3O^+ + e \rightarrow H_2O + H, \quad (1)$$
$$\rightarrow H_2 + OH, \quad (2)$$
$$\rightarrow H_3^* + O \rightarrow H_2 + H + O. \quad (3)$$

Reactions (1) and (2) may be the dominant channels for reaction between H_3O^+ and e. However, reaction (3) may produce metastable H_3^* molecule (H_3) and it may emit radiation in different band systems of H_3. From the laboratory results of similar type of reactions between H_2O^+ and e, which are as follows[8]

$$H_2O^+ + e \rightarrow OH + H \quad (4)$$
$$\rightarrow H_2^* + O \rightarrow 0 + H + H, \quad (5)$$

it can be expected that reaction (3) is also probable. Detected band systems of H_3 are presented in table 1 and their apparent relative intensities and the laboratory results are in good agreement. Many strong emission bands have been found in the spectra of P/Halley which are yet to be identified. It is difficult at present to indicate the detailed excitation mechanism of H_3 molecule in the neutral atmosphere of P/Halley. It is, therefoere, necessary to accumulate more observations on P/Halley for a better insight into the excitation mechanisms of different molecules, radical and ions in its atmosphere.

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ANNOUNCEMENT

SYMPOSIUM ON MAN, DEVELOPMENT, BIORESOURCES AND ENVIRONMENT

The 7th Annual Session of The Academy of Environmental Biology, India, will be held at Sagar (MP) from 26–28 December, 1986. On this occasion, a National Symposium on "Man, Development, Bioresources and Environment" is also held. The main objectives of the Session and Symposium comprise of review and analysis of the situations and taking stock of the outstanding problems of the Environment besides providing the scientists a forum for exchange of the informations and updating of the current knowledge of Environmental Pollution and Toxicology.

It is further stated that Dr C. Sreeramulu Chetty, Reader, Department of Zoology, S.V. University, Tirupati, has been selected by the committee for the first 'Journal of Environmental of Biology Prize' of 1985, to be awarded at Sagar.

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