

# MULTIPLY DEUTERATED SPECIES IN SPACE AND $D_2H^+$

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Recent series of discoveries of multiply deuterated molecules in cold interstellar molecular clouds are really mind provoking. Although the astrochemical significance of  $H_3^+$  and its singly deuterated species,  $H_2D^+$ , are widely recognized and extensively investigated, spectroscopic information on the doubly deuterated species,  $D_2H^+$  has not been as extensive. This ion is an important multiply deuterates species itself and at the same time it may play a crucial role in the chemistry of multiple deuteration. In this presentation a first detection of a submillimeter-wave line of  $D_2H^+$  will be discussed in terms of the recent discoveries of multiply deuterated molecules.