



Thomson, J. J. 1911 Rays of positive electricity. *Phil. Mag.* 21, 225-249.
Thomson, J. J. 1912 Further experiments on positive rays. *Phil. Mag.* 24, 209-253.

Possible or impossible

	H_3^+ in the Central Molecular Zone	H_3^+ laboratory spectrum 1975 - 1980
	H_5^+ laboratory spectrum	H_3^+ interstellar space 1980 - 1996
	H_3^+ in exo-planet?	
10 years	<hr/>	
	H_3^+ rotational spectrum	CH^+ electronic \rightarrow rotational 1941 - 2010
	H_3 emission too few	CH electronic \rightarrow rotational 1918 - 2000
	H_2^+ emission too few	
	H_5^+ assignment	
	H_3^+ Carrington's spectrum	Theory $H_2 \rightarrow H_3^+$ 1975 - 2003
30 years	<hr/>	
	H_3^+ triplet state cannot make discharge in triplet H_2	
	D_3^+ No star	
	H_3^-	
	Solid H_4^+ , H_6^+ UIE	

2018