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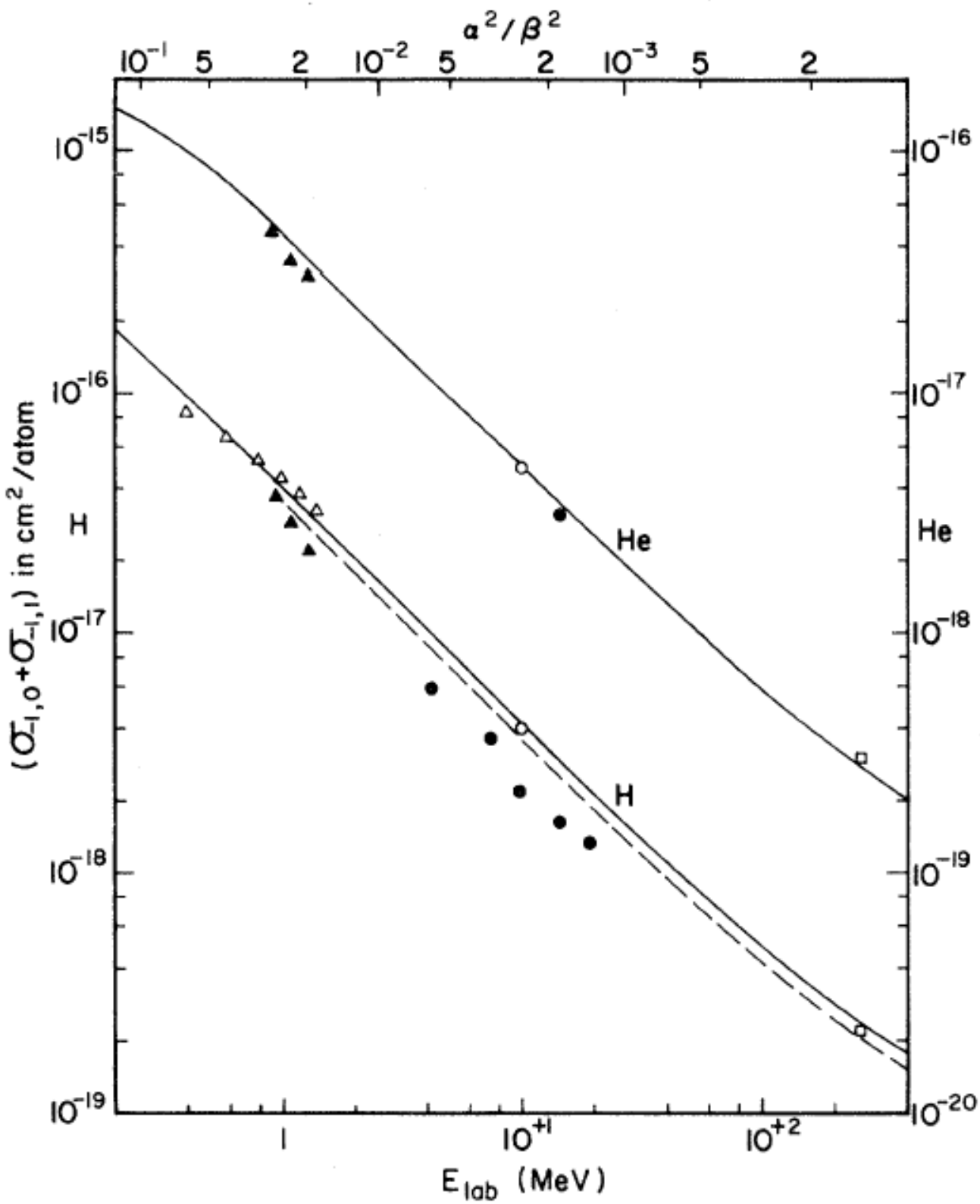

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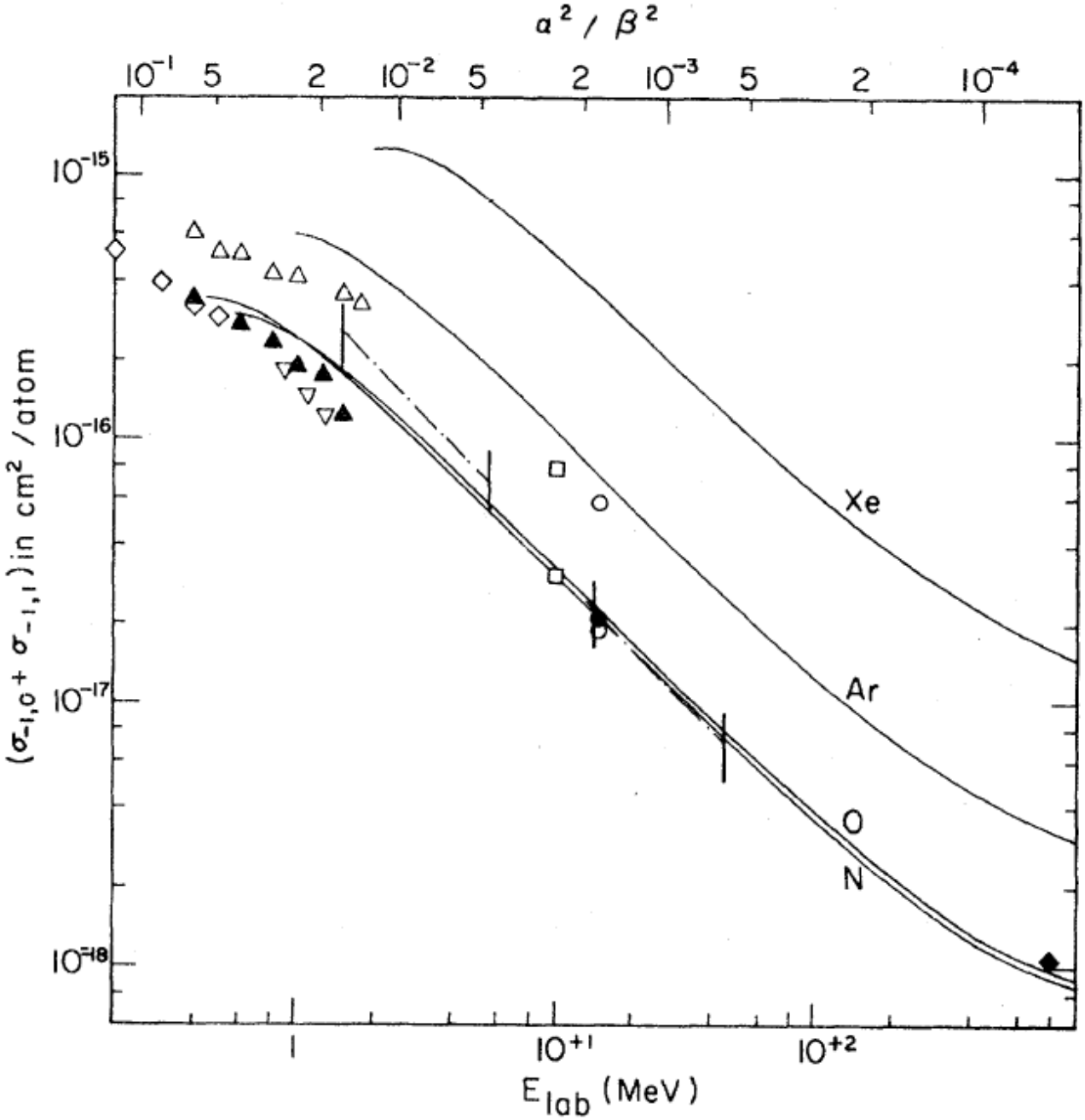

From
ESS LINAC Technical Note n° ESSLIN-TN-0202-01 :
Cross section approximately proportional to the number of electrons in a molecule.

A set of plots from
Charge changing processes in hydrogen beams, H.Tawara and A.Russkk, Rev.of Mod.Ph., 1973

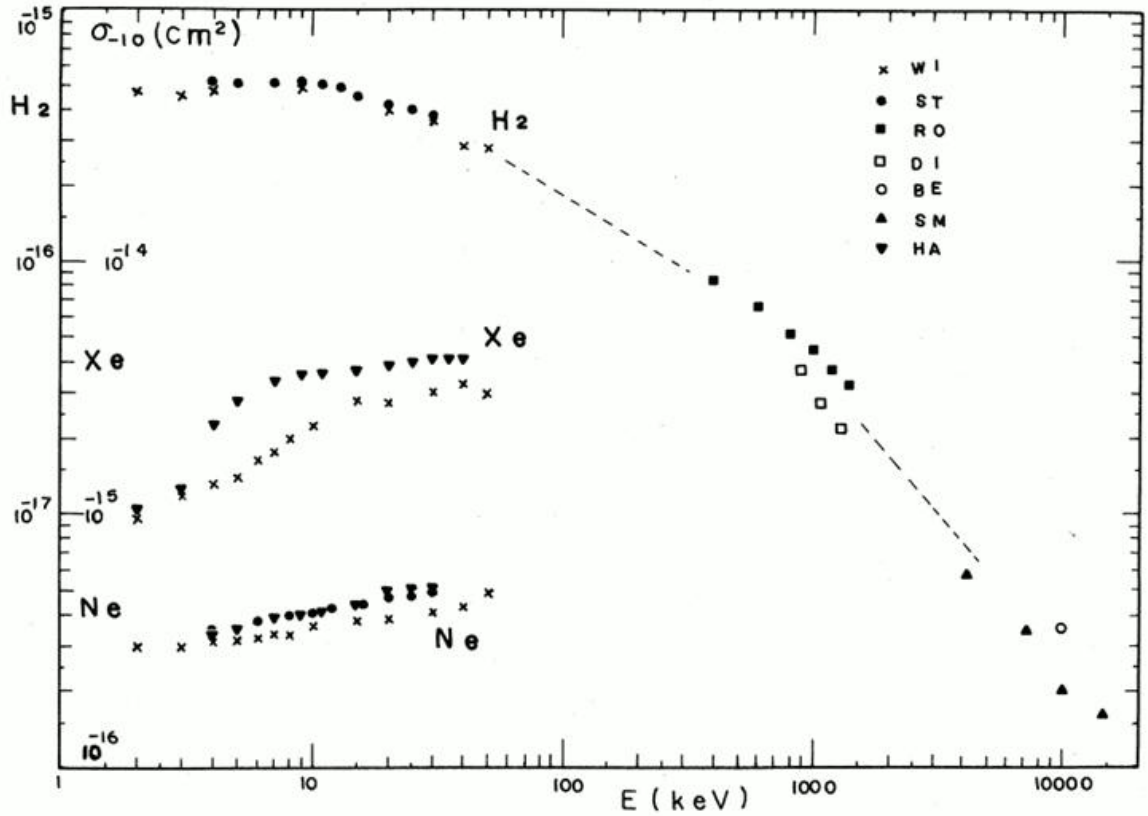

FIG. 22. Single electron loss by a negative hydrogen ion in H_2, Ne, and Xe. WI: Williams (1967b). ST: Stier and Barnett (1956). RO: Rose *et al.* (1958). DI: Dimov and Dudnikov (1967). BE: Berkner *et al.* (1964). SM: Smythe and Toevs (1965). HA: Hasted and Stedeford (1955). The result of Berkner *et al.* is obtained with 20-MeV deuterons.

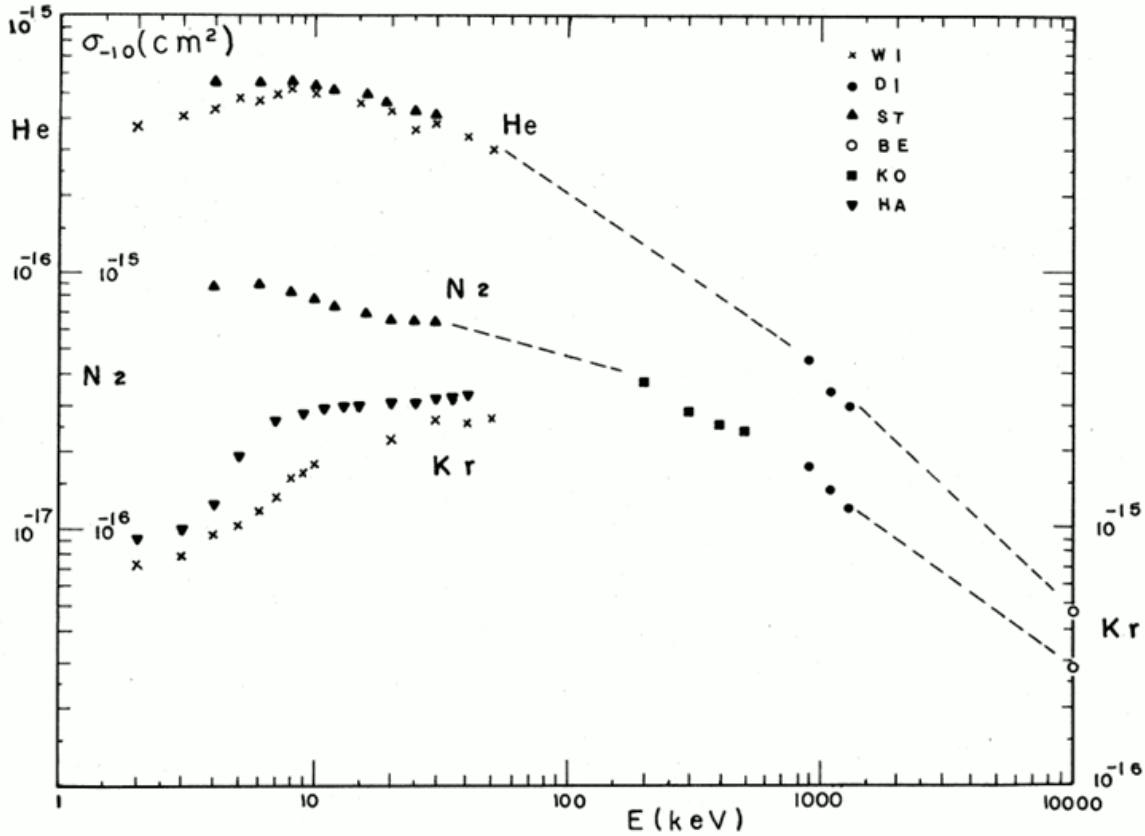

FIG. 23. Single electron loss by a negative hydrogen ion in He, N_2, and Kr. WI: Williams (1967b). DI: Dimov and Dudnikov (1967). KO: Kovacs (1967). BE: Berkner *et al.* (1964). ST: Stier and Barnett (1956). HA: Hasted and Stedeford (1955). The result of Berkner *et al.* is obtained with 20-MeV deuterons.

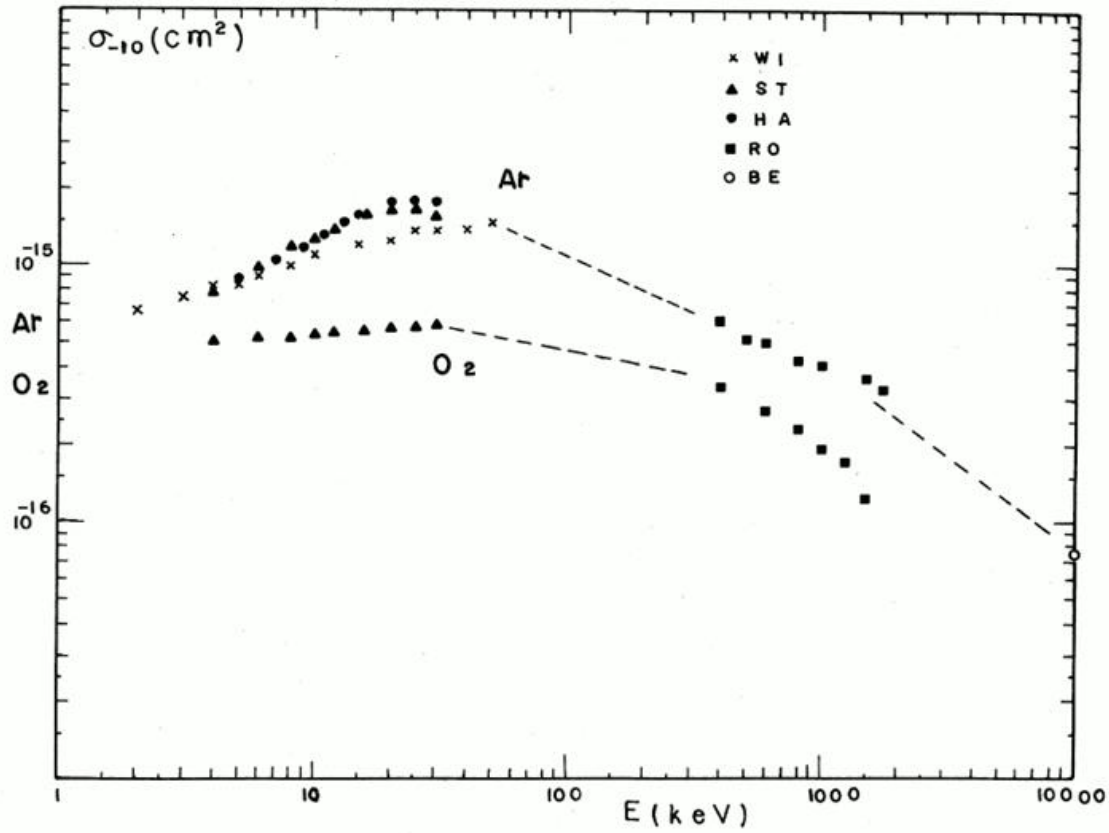

FIG. 24. Single electron loss by a negative hydrogen ion in O_2 and Ar. WI: Williams (1967b). ST: Stier and Barnett (1956). HA: Hasted and Stedeford (1955). RO: Rose *et al.* (1958). BE: Berkner *et al.* (1964). The result of Berkner *et al.* is obtained with 20-MeV deuterons.

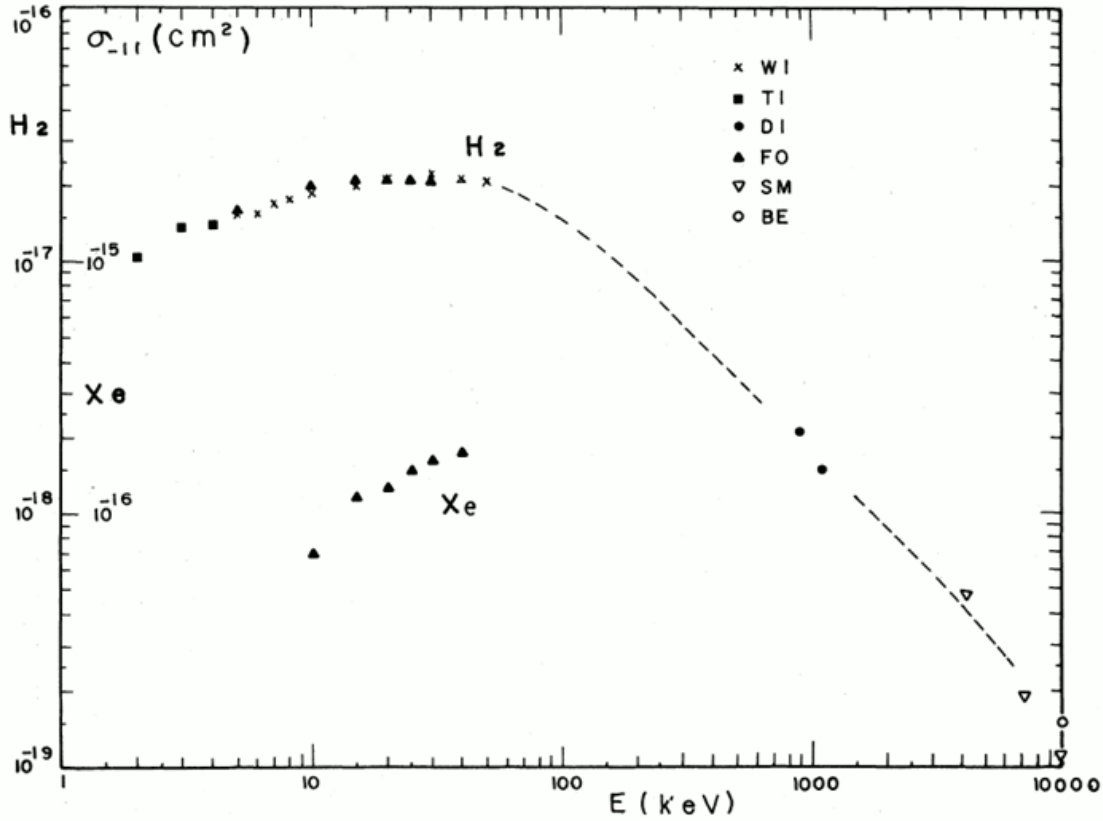

FIG. 25. Double electron loss by a negative hydrogen ion in H_2 and Xe. WI: Williams (1967b). TI: Tisone (1964), Tisone and Branscomb (1964). DI: Dimov and Dudnikov (1967). FO: Fogel *et al.* (1957). SM: Smythe and Toevs (1965). BE: Berkner *et al.* (1964). The result of Berkner *et al.* is obtained with 20-MeV deuterons.