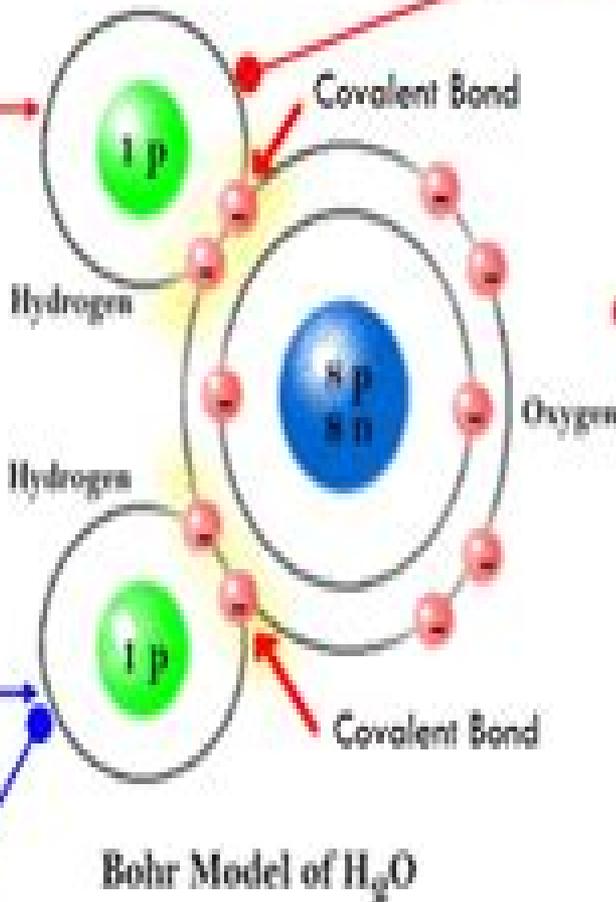


Fast neutron



Feels only H

$$\tau_{coll} \sim 0$$

$$E_k \gg E_{chem}$$

$$\sigma_s(H_2O) = 2\sigma_s(H) + \sigma_s(O)$$

Slow (thermal) neutron

Feels whole molecule

$$\tau_{coll} \neq 0$$

$$E_k \sim E_{chem}$$

# Nuclear Scattering

**Ian Pickup**



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