## The atomic unit of energy



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The atomic unit of energy is the Hartree. One Hartree is equal to:

$$1 Ha = \frac{e^2}{4\pi\varepsilon_0 a_0}$$

where e is the charge on the electron,  $\varepsilon_0$  is the vacuum permittivity and  $a_0$  is the Bohr radius. Note that when all is Said and done this is nothing more than the potential energy of two charges at a distance of a Bohr radius from each other. Calculate the value of the Hartree in Joules and then write it also in eV. What is the relationship with the Rydberg constant?