

# Computer simulation of possible hydrogen atoms storage in single-wall closed carbon nanotube

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The computer simulation of H<sub>2</sub> molecules penetration into nanotube is considered. The molecular beam is supposed to be isotropic one. The several equations of particle motion were solved numerically by use high-speed computer. The interatomic forces were supposed to be defined from combined potential. The interaction of all participating atoms with each others was taken into account. The storage of atoms seems to be not favourable at the incident energies more than 30 eV/atom. At less energies the life-time of hydrogen atom in nanotube rarely exceeds 1 ps.