## Carbon nanotubes formation in the decomposition of heavy hydrocarbons creeping along the surface of the glow discharge

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## Abstract

The possibility of heavy hydrocarbons decomposition in the plasma of the creeping glow discharge in a magnetic field is investigated. An electron microscopic analysis of carbon deposit on the electrodes and the walls of the discharge chamber, and gas chromatographic analysis formed in the course of the experiment is carried out. The grown carbon nanotubes have a length of about  $6,17\mu m$  and a diameter of about 18nm.

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