



Contribution ID : 136

Type : Oral parallel contribution

Calculation of electron capture cross sections in ion collisions with molecules formed in plasma-wall interaction

Tuesday, 18 July 2017 16:40 (20)

We present calculations of total cross sections for electron capture between protons and BeH molecules at collision energies between 25 eV and 10 keV. We have employed the semiclassical approximation and the sudden approximation for rotation and vibration. Our results show that the electron capture cross section is sizeable and may be relevant in plasma modelling.

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Session Classification : Plasma Physics I

Track Classification : Plasma Physics