Turkish Journal of Physics

Turkish Journal

of

Physics

A Time-Dependent Quantum Study of Li+HF(■=1) -> LiF(■')+H

Fahrettin GÖGTAŞ
The University of Fırat, Department of Physics,
Elazığ-TURKEY
Gabriel G. BALINT-KURTI
The University of Bristol, School of Chemistry,
Bristol BS8 1TH, UK

Keywords
Authors

Abstract: Time-dependent quantum wave packet calculations are performed for a model based (two-dimensional) Li+HF(■=1)\ra LiF(■$^{\prime}$)+H reaction. The reaction probabilities for a broad range of collison energies are calculated by a single solution of the time-dependent Schr\\"{o}dinger equation. The calculated reaction probabilities show many sharp features as a function of energy which are ascribed to scattering resonances.

Turk. J. Phys., **22**, (1998), 9-20.
Full text: pdf
Other articles published in the same issue: Turk. J. Phys.,vol.22,iss.1.

phys@tubitak.gov.tr

Scientific Journals Home Page