

Abstract Submitted
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Characteristics of atom-molecule elastic scattering¹ NINGYI DU,
BO GAO, University of Toledo — Through numerical calculations for some typical
systems, we explore the general characteristics of low-energy atom-molecule inter-
action for a molecule in its ground rovibrational state and over a range of energies
in which only elastic collision can occur. In particular, we explore the role of the
anisotropic part of the atom-molecule potential on both the background and the res-
onances of their elastic scattering. This work is a part of an exploration related to
the application and the further development of multichannel quantum defect theory
(MQDT) for atom-molecule interactions.

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