

Abstract Submitted
for the DAMOP18 Meeting of
The American Physical Society

Van der Waals repulsive peaks in four bodies.¹ JIANING HAN,
University of South Alabama — Van der Waals interactions can be used to create
molecules. Recently, it is observed that van der Waals interactions can be repulsive.
In this presentation, The repulsive peaks within four-body van der Waals coupled
states will be investigated. Specifically, nsns(n+9)s will be studied. The principle
quantum number n dependence will be presented. It is shown that the peak size
increases as the energy difference between two coupled states increases.

¹Army Research Office

Jianing Han
University of South Alabama

Date submitted: 26 Jan 2018

Electronic form version 1.4