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Modelling interactions of alkali-cation dimers in He clusters (Conference Paper)

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Alharzali, N.^{a,b}, Berriche, H.^c, Villarreal, P.^a, Prosimiti, R.^a ✉️

^aInstitute of Fundamental Physics (IFF-CSIC), CSIC, Serrano 123, Madrid, 28006, Spain

^bLaboratory of Interfaces and Advanced Materials, Faculty of Science, University of Monastir, Monastir, 5019, Tunisia

^cDepartment of Mathematics and Natural Sciences, School of Arts and Sciences, American University of Ras Al Khaimah, RAK, P.O. Box 10021, United Arab Emirates

Abstract

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Doped He droplets constitute an important environment as ultracold homogeneous matrices for spectroscopic studies. Alkali metal dopants have a series of interesting properties due to their unusual bonding behavior. Neutral atoms attached to the surface of the droplet, forming eventually cold molecules via collisions, while charged dopants form solvation shells, related with the low mobility of the ions in experiments. So, investigations on the underlying intermolecular, markedly orientational ionic, forces, and on the microscopic structures of alkali-cation-He complexes is essential. © 2019 Published under licence by IOP Publishing Ltd.

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