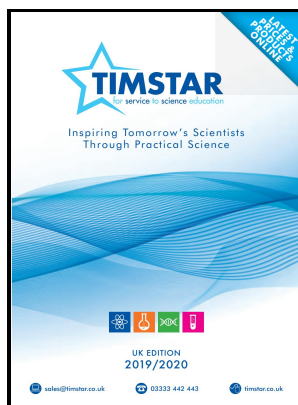


# Studies of ions beneath the surface of liquid helium below 1K

University of Birmingham - Charge Transfer and Orbital Level Alignment at Inorganic/Organic Interfaces: The Role of Dielectric Interlayers



Description: -

-Studies of ions beneath the surface of liquid helium below 1K

-Studies of ions beneath the surface of liquid helium below 1K

Notes: Thesis (Ph.D.) - University of Birmingham, Dept of Physics.

This edition was published in 1986



Filesize: 68.74 MB

Tags: #Surface #ion #mobility #measurements #in #liquid #helium #(Thesis/Dissertation)

## Two

An experimental verification of the Thomson equation shows the validity of the macroscopic thermodynamics when it is applied to microscopic systems and also gives information about the drop structure.

### Mobility of ions under the surface of liquid helium

We show that the effective at.

### Pools of ions trapped below the surface of superfluid helium

Occasionally, orbital-like structure was resolved on these surfaces, possibly when the STM tip got unintentionally functionalized with a 5A molecule.

### Surface ion mobility measurements in liquid helium (Thesis/Dissertation)

Low frequency impedance measurements of the two-dimensional charge layer have been performed using a bridge circuit. Using WF measurements, STM and photoemission imaging and spectroscopy, together with DFT calculations, we show that the molecular LUMO gets pinned to the Fermi level on both substrates, and we are able to determine the individual contributions that affect the energy level alignment and lead to charging of the 5A molecule. The Journal of Physical Chemistry C 2018, 122 46 , 26472-26479.

## Two

Upon suppressing electronic coupling between the adsorbate and the substrate by inserting thin, insulating layers of NaCl, the hybrid functional localizes charge. Tailoring the growth and electronic structures of organic molecular thin films.

## **Pools of ions trapped below the surface of superfluid helium**

A long-standing challenge has been the attainment of a similar description within d. One of these quasiparticles, a crucial one, was his famous "roton" which he considered as an elementary vortex.

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