#### ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ,

#### ΤΜΗΜΑ ΦΥΣΙΚΗΣ,

**ΤΟΜΕΑΣ ΦΥΣΙΚΗΣ ΣΤΕΡΕΑΣ**

**ΚΑΤΑΣΤΑΣΗΣ**

**ΠΑΝΕΠΙΣΤΗΜΙΟΥΠΟΛΗ, 157 84 ΑΘΗΝΑ**

**ΣΕΜΙΝΑΡΙΑ**

**ΦΥΣΙΚΗΣ ΣΥΜΠΥΚΝΩΜΕΝΗΣ ΥΛΗΣ**

**Τετάρτη 21-3-2018 11:00**

Αίθουσα Σεμιναρίων Τομέα Φυσικής Στερεάς Κατάστασης, Πανεπιστημιούπολη, Ζωγράφου

**Stiffness-guided motion of a droplet on a solid substrate**

**Panagiotis Theodorakis**

Institute of Physics, Polish Academy of Sciences

Warsaw, Poland

A range of technologies require the directed motion of nanoscale droplets on solid substrates. A way of realizing this effect is durotaxis, whereby a stiffness gradient of a substrate can induce directional motion without requiring an energy source. In our seminar, I will discuss results obtained from extensive molecular dynamics investigations of droplets on a surface with varying stiffness, anticipating that this study will provide further insights into the mechanisms of nanoscale directional motion. I will also provide a very brief overview of my research activities in the last year in different research topics and provide the link to further interaction with the host institution.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Υπεύθυνος Οργάνωσης Σεμιναρίων:**

Σ. Γλένης Πανεπιστήμιο Αθηνών, τηλ. 2107276811 [sglenis@phys.uoa.gr](mailto:sglenis@phys.uoa.gr)