

ΙΔΡΥΜΑ ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΕΡΕΥΝΑΣ

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ΣΕΜΙΝΑΡΙΟ

OMIΛΗΤΗΣ: Professor Tomasz A. Wesolowski

University of Geneva, Dept. of Physical Chemistry

ΘEMA: The kinetic energy as the functional of electron density –

challenge for theory and practical benefits in computer

modeling of soft condensed matter

ΤΟΠΟΣ: Αίθουσα Σεμιναρίων ΙΤΕ/ΕΙΧΗΜΥΘ

ΗΜΕΡΟΜΗΝΙΑ: Τρίτη, 16 Νοεμβρίου 2004

ΩPA: 19:00

ПЕРІЛНЧН

Outline of the talk:

- I. Subsystem based formulation of density functional theory
- II. New theoretical challenge: approximation of the non-additive kinetic energy as a functional of two electron densities
- III. Review of our studies of the non-additive kinetic energy bi-functional
- IV. Practical applications (solvated chromophores, electronic structure of metal impurities in solids, interaction induced changes of electronic structure).