Session Program

28-31 Aug 2018



Annual meeting of the Swiss Physical Society 2018

Advanced Electronic-Structure Developments and Applications

EPFL

Wednesday 29 August

16:30

Advanced Electronic-Structure Developments and Applications: I Session | Location: EPFL, CE 2

16:30-17:00

[501] Electronic structures through \$GW\$ and hybrid functionals: from defect levels to band gaps

Speaker

Dr Wei Chen

17:00-17:15

[502] Koopmans-compliant functionals: A reliable and efficient tool for the prediction of spectroscopic

Speaker

Dr Nicola Colonna

17:15-17:30

[503] Electronic structure and excitonic effects in the photoanode β-Cu2V2O7

Speaker

Igor Reshetnyak

17:30-17:45

[504] pH-dependent surface chemistry and catalytic reaction pathway from first-principles

Speaker

Dr Francesco Ambrosio

17:45-18:00

[505] Transition-metal compounds from extended Hubbard functionals

Speaker

Matteo Cococcioni

18:00-18:15

[506] Hubbard interactions from density-functional perturbation theory

Speaker

Iurii Timrov

18:15

Thursday 30 August

17:00

Advanced Electronic-Structure Developments and Applications: II Session | Location: EPFL, CE 2

17:00-17:30

[511] Nonempirical hybrid functionals unravel the intricate mechanisms of self-compensation in Mg-doped GaN

Speaker

Giacomo Miceli

17:30-17:45

[512] Quantitative modelling of Pt(111)/water interface under bias potential through constant Fermi-level molecular dynamics

Speaker

Assil Bouzid

17:45-18:00

[513] Surface Polarons Reducing the Overpotentials in the Oxygen Evolution Reaction

Speaker

Patrick Gono

18:00-18:15

[514] First-principles-based prediction of yield strength in the RhIrNiPdPtCu high entropy alloy

Speaker

Dr Binglun Yin

18:15-18:30

[515] Silicon liquid structure and crystal nucleation from ab-initio deep metadynamics

Speaker

Luigi Bonati

18:30-18:45

[516] Ordering at the Ga/GaAs interface. Combining first-principles and machine-learning simulations

Speaker

Mr Giulio Imbalzano

18:45