

TUE1M: Surface, Interface and Low-Dimensional Physics - Electronic Properties I

Chaired by H. Pfnür, Leibniz Universität Hannover, Hannover, Germany

Time: Tuesday 9:40–11:00

Location: Aula Magna

Invited talk

TUE1M.1 9:40 Aula Magna

Surface state in self-organized nanostructured surfaces — •DANIEL MALTERRE, YANNICK FAGOT-REVURAT, BERTRAND KIERREN, and CLÉMENT DIDOT — Laboratoire Physique des Matériaux, Nancy Université, BP 239, B.P. 239, F-54506 Vandoeuvre-lès-Nancy, FRANCE

In this contribution we present a study of the electronic properties of self-organized nanostructured surfaces by Angle-Resolved-Photoemission Spectroscopy and Scanning Tunneling Spectroscopy.

TUE1M.2 10:20 Aula Magna

Curved crystals: a smart approach to surface science — •MARTINA CORSO¹, FREDERIK SCHILLER^{2,3}, LAURA FERNANDEZ², JAVIER CORDÓN², and ENRIQUE ORTEGA^{1,2,3} — ¹DIPC, Manuel Lardizábal 3, E-20018 San Sebastián, Spain — ²Universidad del País Vasco, Dpto. Física Aplicada I, Plaza Oñate 2, E-20018 San Sebastián,

Spain — ³Unidad de Física de Materiales CSIC/UPV, Manuel Lardizábal 3, E-20018 San Sebastián, Spa

The structural and electronic properties of Au(111) and Cu(111) curved samples are presented in view of STM and ARPES investigations. Their optimal use as set of nanotemplates is exploited with decoration experiments.

TUE1M.3 10:40 Aula Magna

Electronic states of Cu vicinal surface nanopatterned by oxygen-induced reconstruction — •CARLOS EDUARDO VIOL BARBOSA, JUN FUJI, GIANCARLO PANNACCIONE, and GIORGIO ROSSI — TASC National Laboratory, INFN-CNR, SS 14, km 163.5, I-34012 Trieste, Italy

Control of oxygen dose on Cu(332) surface induces reconstructions with periodicity from 3 to 10 nm. We study electron confinement and magnetism of Fe nanowires obtained by using such structures as a template.