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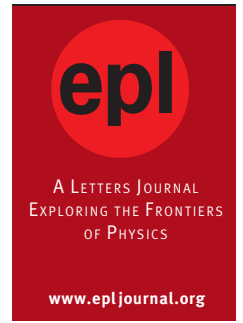
3 EPL Poster Prizes at the SPS Annual Meeting 2012

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3 EPL Poster Prizes at the SPS Annual Meeting 2012

This year the European Journal EPL inaugurated a prize awarded to the three best posters presented at the SPS annual meeting. Each winner received a watch stamped at the name of EPL together with a check of 200.- CHF.

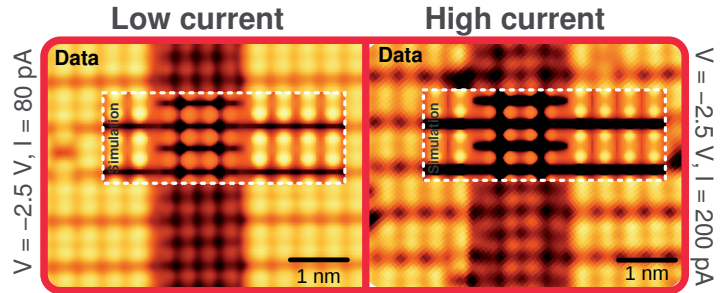


Excerpts of the winning posters:

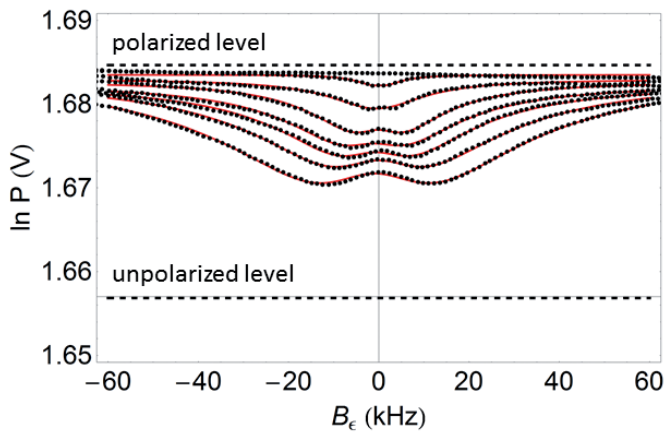
François Bianco, Dépt. de la Matière Condensée, Université de Genève

One-dimensional nanolines and single atom chains on Si(001)

Filled state constant current scanning tunnelling micrograph (STM) of a silicon 1D nanoline embedded in monohydride silicon taken at 77 K, with a tip bias $V = 2.5$ V, at 80 pA (left) and 200 pA (right). The parts within the dashed rectangle are STM simulations based on integration of density functional theory results. There is a strong matching between data and theoretical modelling. These nanolines are promising candidates for a 1D model system to probe physics at low dimensions.



Evelina Breschi, Dépt. de Physique, Université de Fribourg



Ground State Hanle effect based on atomic alignment: theory and experiment

Comparison of theoretical (red lines) and experimental (dots) lineshapes of the longitudinal ground state Hanle resonances in room temperature cesium vapour for a discrete set of transverse magnetic fields. The resonance contrast is determined by the degree of atomic alignment calculated from the linear absorption spectra of polarized and unpolarized atoms.

Gaël Monney, Dépt. de Physique and Center for Nanomaterials, Université de Fribourg

Electron-hole instability in $TiSe_2$

Comparison between ARPES measurements and calculations explaining the bands renormalization due to electron-hole instability in the charge density wave compound $TiSe_2$.

