Curriculum Vitae

Name: Paul Snijders

Title: Research Staff

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Bio: M.Sc. in Materials Science and Technology 2001, Delft University of Technology, The Netherlands; Ph.D. in Physics 2006, Delft University of Technology, The Netherlands; Wigner Fellow, Oak Ridge National Laboratory 2007–2008; Oak Ridge National Laboratory Staff member 2009–present

Awards: Wigner Fellowship, Winner of the 2006 Nottingham Prize

Projects: Electronic complexity of epitaxial rutile heterostructures

Specialized Equipment: Ultrahigh Vacuum, Scanning Tunneling Microscopy and spectroscopy, oxide molecular beam epitaxy, low energy electron diffraction, Electron spectroscopy

Selected Publications:

1. H. Guo et al., "Strain Doping: Reversible Single-Axis Control of a Complex Oxide Lattice via Helium Implantation," *Phys. Rev. Lett.* **114**, 256801 (2015).

2. Teng et al., "Quantum oscillations in the surface excitations of ultrathin Mg(0001) films," *Phys. Rev. B* **90,** 115416 (2014).

3. K. Seal et al., "Resolving transitions in the mesoscale domain configuration in VO2 using laser speckle pattern analysis," *Sci. Rep.* **4**, 6259 (2014).

4. Z. Gai et al., "Chemically induced Jahn-Teller ordering on manganite surfaces," *Nat. Comm.* **5**, 4528 (2014).

5. S. Polei et al., "Structural transition in atomic chains driven by transient doping," *Phys. Rev. Lett.* **111**, 156801 (2013).

6. W. Wang et al., "Room-temperature multiferroic hexagonal LuFeO3 films," *Phys. Rev. Lett.* **110**, 237601 (2013).

7. P.C. Snijders et al., “A persistent metal-insulator transition at the surface of an oxygen-deficient, epitaxial manganite film,” *Nanoscale* **5**, 9659 (2013).

8. P.C. Snijders et al., “Spectroscopic evidence for spin-polarized edge states in graphitic Si nanowires,” *New J. Phys.* **14**, 103004 (2012).

9. P.C. Snijders et al., “Electronic instabilities in self-assembled atom wires,” *Rev. Mod. Phys.* **82**, 307 (2010).

10. K. Fuchikami et al., “Tunable Metallicity of the La5/8Ca3/8MnO3(001) Surface by an Oxygen Overlayer,” *Phys. Rev. Lett.* **102**, 066104 (2009).