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## Publikationer

### **Charge state control of F16CoPc on h-BN/Cu(111)**

Pörtner, M., Wei, Y., Riss, A., Seufert, K., Garnica, M., Barth, J., Seitsonen, A. P., Diekhöner, L. & Auwärter, W., 2020, I : Advanced Materials Interfaces.

### **Co(CO)<sub>n</sub>/Cu(001): Towards understanding chemical control of the Kondo effect**

Bahlke, M. P., Wahl, P., Diekhöner, L. & Herrmann, C., 1 apr. 2019, I : Journal of Applied Physics. 125, 14, 13 s., 142910 .

### **An extended chiral surface coordination network based on Ag<sub>7</sub>-clusters**

Svane, K. L., Babiloniai, M. S., Hammer, B. & Diekhöner, L., 28 okt. 2018, I : Journal of Chemical Physics. 149, 16, 10 s., 164710.

### **From self-assembly to metal-organic coordination: Trimesic acid on Ag(111)**

Diekhöner, L., Babiloniai, M. S., Kiel, S. & Gastaldo, M., 2016.

### **Molecular self-assembly at nanometer scale modulated surfaces: Trimesic acid on Ag(111), Cu(111) and Ag/Cu(111)**

Babiloniai, M. S. & Diekhöner, L., 2014, I : Physical Chemistry Chemical Physics. 16, s. 11265 - 11269

### **Quantum transport through single atoms and molecules**

Vitali, L., Wahl, P., Ohmann, R., Bork, J., Zhang, Y., Diekhöner, L. & Kern, K., 2013, I : IPPS physica status solidi (b). 250, 11, s. 2437-2443

### **A tunable two-impurity Kondo system in an atomic point contact**

Bork, J., Zhang, Y., Diekhöner, L., Borda, L., Simon, P., Kroha, J., Wahl, P. & Kern, K., 2011, I : Nature Physics. 7, s. 901-906

### **Local spectroscopy of the Kondo lattice YbAl<sub>3</sub>: Seeing beyond the surface with scanning tunneling microscopy and spectroscopy**

Wahl, P., Diekhöner, L., Schneider, M. A., Treubel, F., Lin, C. T. & Kern, K., 2011, I : Physical Review B (Condensed Matter and Materials Physics). 84, 24, s. 245131 7 s.

### **Electronic structure and ordering of multilayers of Co and Ag on Cu(111) investigated by photoelectron spectroscopy**

Bork, J., Diekhöner, L., Li, Z. & Onsgaard, J., 2010, I : Surface Science. 604, 17-18, s. 1536-1541 6 s.

### **Growth and structure of Ag on bilayer Co nanoislands on Cu(111)**

Bork, J., Onsgaard, J. & Diekhöner, L., 2010, I : Journal of Physics: Condensed Matter. 22, s. 135005

#### **Potential energy landscape of metallic Moiré patterns**

Bork, J., Wahl, P., Diekhöner, L. & Kern, K., 29 nov. 2009, I : New Journal of Physics. 11, s. 113051 10 s.

#### **Kondo-effect of substitutional cobalt impurities at copper surfaces**

Wahl, P., Seitsonen, A., Diekhöner, L., Schneider, M. A. & Kern, K., 2009, I : New Journal of Physics. 11, s. 113015 9 s.

#### **Background removal in scanning tunneling spectroscopy of single atoms and molecules on metal surfaces**

Wahl, P., Diekhöner, L., Schneider, M. A. & Kern, K., 2008, I : Review of Scientific Instruments. 79, 4, s. 043104 4 s.

#### **Bilayer growth of nanoscale Co islands on Cu(111)**

Negulyaev, N. N., Stepanyuk, V. S., Bruno, P., Diekhöner, L., Wahl, P. & Kern, K., 2008, I : Physical Review B. Condensed Matter and Materials Physics. 77, 12, s. 125437

#### **Electrical, optical and magnetic properties of nanostructures**

Pedersen, T. G. & Diekhöner, L., 2008, 138 s.

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#### **Local measurement of hot-electron phase-coherence at metal surfaces**

Schneider, M. A., Wahl, P., Vitali, L., Diekhöner, L., Vogelgesang, R. & Kern, K., 2007, I : Applied Physics A: Materials Science & Processing. 88, 3, s. 443-447

#### **Ordered Au(111) layers on Si(111)**

Silva, A., Pedersen, K., Diekhöner, L., Morgen, P. & Li, Z., 2007, I : Journal of Vacuum Science & Technology. A: International Journal Devoted to Vacuum, Surfaces, and Films. 25, 4, s. 908-911

#### **Lifetime of spin-polarized surface state electrons**

Diekhöner, L., Vogelgesang, R., Wahl, P., Schneider, M. A. & Kern, K., 2006, *Symposium on Surface Science 2006*. Aumayr, F. & Varga, P. (red.). Institut für Allgemeine Physik, Technische Universität Wien, s. 36-37 2 s.

#### **Kondo Effect of Co Adatoms on Ag Monolayers on Noble Metal Surfaces**

Schneider, M. A., Wahl, P., Diekhöner, L., Vitali, L., Wittich, G. & Kern, K., 2005, I : Japanese Journal of Applied Physics. 44, 7B, s. 5328-5331

#### **Kondo effect of molecular complexes at surfaces: Ligand control of the local spin coupling**

Wahl, P., Diekhöner, L., Wittich, G., Vitali, L., Schneider, M. A. & Kern, K., 2005, I : Physical Review Letters. 95, 16, s. 166601

#### **Kondo state of Co impurities at noble metal surfaces**

Schneider, M. A., Vitali, L., Wahl, P., Knorr, N., Diekhöner, L., Wittich, G., Vogelgesang, M. & Kern, K., 2005, I : Applied Physics A: Materials Science & Processing. 80, 5, s. 937-941

#### **Phase coherence length and quantum interference patterns at step edges - Wahl et al. reply**

Wahl, P., Schneider, M. A., Diekhöner, L., Vogelgesang, R. & Kern, K., 2005, I : Physical Review Letters. s. 029702-

#### **Scattering of image-potential state electrons by steps on Cu(001)**

Roth, M., Weinelt, M., Fauster, T., Wahl, P., Schneider, M. A., Diekhöner, L. & Kern, K., 1 jan. 2004, I : Applied Physics A: Materials Science & Processing. 78, 2, s. 155-159 4 s.

#### **Kondo temperature of magnetic impurities at surfaces**

Wahl, P., Diekhöner, L., Schneider, M. A., Vitali, L., Wittich, G. & Kern, K., 2004, I : Physical Review Letters. 93, s. 176603

**Surface step structure of Ag<sub>13</sub> Os O<sub>6</sub> experimental evidence for Ag<sub>13</sub> cluster building blocks**

Ahlert, S., Diekhöner, L., Sordan, R., Kern, K. & Jansen, M., 2004, I : Chemical Communications. 4, s. 462-463

**Quantum coherence of image potential states**

Wahl, P., Schneider, M. A., Diekhöner, L., Vogelsang, R. & Kern, K., 2003, I : Physical Review Letters. 91, s. 106802

**Spin polarized surface states of cobalt nanoislands on Cu(111)**

Diekhöner, L., Schneider, M. A., Wahl, P., Baranov, A. N., Stepanyuk, V. S., Bruno, P. & Kern, K., 2003, *AIP Conference Proceedings 696: 12th International Conference on Scanning Tunneling Microscopy/Spectroscopy and Related Techniques*. 53 udg. s. 53-59 7 s.

**State resolved inelastic scattering of N<sub>2</sub> from Ru(0001)**

Mortensen, H., Jensen, E., Diekhöner, L., Baurichter, A., Luntz, A. C. & Petrunin, V. V., 2003, I : Journal of Chemical Physics. 118, s. 11200-11209

**Surface states of cobalt nanoislands on Cu(111)**

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Mortensen, H., Diekhöner, L., Baurichter, A. & Luntz, A. C., 2002, I : Journal of Chemical Physics. 116, s. 5781-5794

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**Kondo effect of single Co atoms on Cu surfaces**

Knorr, N., Schneider, M. A., Diekhöner, L., Wahl, P. & Kern, K., 2002, I : Physical Review Letters. 88, 9, s. 0968041

**Dynamic displacement of N<sub>2</sub> from Ru(0001) by incident D and H atoms**

Diekhöner, L., Mortensen, H., Åkerlund, C., Baurichter, A. & Luntz, A. C., 2001, I : Journal of Chemical Physics. 114, s. 4215-4220

**Laser Assisted Associative Desorption of N<sub>2</sub> and CO from Ru(0001)**

Diekhöner, L., Mortensen, H., Baurichter, A. & Luntz, A. C., 2001, I : Journal of Chemical Physics. 115, s. 3356-3373

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Diekhöner, L., Mortensen, H., Baurichter, A., Jensen, E., Petrunin, V. V. & Luntz, A. C., 2001, I : Journal of Chemical Physics. 115, s. 9028-9035

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**Observation of metastable atomic nitrogen adsorbed on Ru(0001)**

Diekhöner, L., Baurichter, A., Mortensen, H. & Luntz, A. C., 1 feb. 2000, I : Journal of Chemical Physics. 112, 5, s. 2507-2515

**Coverage dependence of activation barriers: Nitrogen on Ru(0001)**

Diekhöner, L., Mortensen, H., Baurichter, A. & Luntz, A. C., 2000, I : Journal of Vacuum Science & Technology. A: International Journal Devoted to Vacuum, Surfaces, and Films. 18, 4, s. 1509-1513

**Dynamics of High Barrier Gas-surface Reactions studied by Laser Assisted Associative Desorption**  
Diekhöner, L., 2000, SDU-Odense Universitet: Fysisk Institut.

**Dynamics of high barrier surface reactions: Laser Assisted Associative Desorption of N<sub>2</sub> from Ru(0001)**  
Diekhöner, L., Baurichter, A., Mortensen, H., Luntz, A. C. & Hammer, B., 2000, I : Physical Review Letters. 84, 21, s. 4906-4909

**Parallel pathways in methanol decomposition on Pt(111)**  
Diekhöner, L., Butler, D. A., Baurichter, A. & Luntz, A. C., 1998, I : Surface Science. 409, s. 384-391

## **Presseklip**

**An extended chiral surface coordination network based on Ag<sub>7</sub>-clusters**  
Katrine L. Svane, Mahdi Sadeghzadeh Babiloliaei, Bjørk Hammer & Lars Diekhöner  
18/10/2018  
1 element af Mediedækning

**Hvordan kan man afskærme magnetfelter?**  
Lars Diekhöner  
15/12/2013  
1 element af Mediedækning

**Aalborg-forskere kaster nyt lys over koboltatomer**  
Lars Diekhöner  
09/09/2011  
2 elementer af Mediedækning