

## Dutch Scanning Probe Microscopy Day 2024

### List of Posters

01. **Koen van Deelen (University of Leiden):** Towards atomic resolution STM inside a dry dilution fridge
02. **Prem Kumar Viji Babu (Bruker):** Real time observation of biomolecules using Tip-Scanning High-Speed Atomic Force Microscopy
03. **Kevin Vonk (University of Twente):** The Quest for Topology on Bi / Ge(111)
04. **Dennis Klaassen (University of Twente):** Quantum Spin Hall States and Topological Phase Transition in Germanene
05. **Esra van 't Westende (University of Twente):** Phase transitions and interactions of germanene nanoribbons
06. **Niek Aarts (Radboud University, Nijmegen):** Bottom-up 1D electronic confinement on InSb
07. **Arend-Jan Hengst (University of Twente):** Vacancy diffusion mediated dynamics of domain boundaries on  $Ge(111)-c(2\times 8)$
08. **Froris Kooij (University of Utrecht):** Shot noise for oxide-based superconductors
09. **Felix Zahner (University of Hamburg):** Anisotropic motion and growth on the row-wise antiferromagnetic state on Mn/Re(0001)
10. **Arturo Rodríguez Sota (University of Hamburg):** Sub-Monolayer Mn/Ir(111) studied by SP-STM
11. **Hermann Osterhage (Radboud University, Nijmegen):** Exploring the evolution of bottom-up engineered quantum states in high magnetic field
12. **Arved Heilmann (University of Hamburg):** The search for non-coplanar spin structures on superconducting substrates by SP-STM
13. **Victor Wesselingh (University of Utrecht):** Transfer of Wet-Chemically Prepared Bi<sub>2</sub>Se<sub>3</sub> Nanoplatelets to Vacuum-Cleaned Substrate for Atomic-Scale Imaging
14. **Maciej Bazarnik (University of Münster):** Spin and stacking contrast in a magnetic graphene-based 2D hybrid resolved by image potential states
15. **Rik Broekhoven (TU Delft):** Efficient algorithm for dispersion of Yu-Shiba-Rusinov chains on a superconducting surface
16. **Hester Vennema (TU Delft):** Driving nuclear spin transitions on a single atom using ESR-STM
17. **Sebastiaan Haartsen (University of Twente):** Exploring humidity-controlled interactions between a MoS<sub>2</sub>-flake and SiO<sub>2</sub> substrate.
18. **Antonino Cucinotta (KU Leuven):** Surface-Supported Porous Metal-Organic Network Fabricated by Temperature-Controlled Self-Assembly at the Liquid-Solid Interface
19. **Anastasiia Bazylevska (KU Leuven):** Bipolar electrochemistry for functionalization of 2D materials
20. **Robby Reynaerts (KU Leuven):** To bind or not to bind: Donor-acceptor complexation at the liquid-solid interface through bivalent design
21. **Matthijs Rog (University of Leiden):** Probing strongly correlated quantum materials with hybrid SQUID-on-tip imaging
22. **Jian Gao (AMOLF):** A Flexible Single-Step 3D Nanolithography Approach via Local Anodic Oxidation: Theoretical and Experimental Studies