

## **A Low Temperature Scanning Tunneling Microscopy System For**

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**A low-temperature scanning tunneling microscope with  
in ...**

**1 Upgrade of a low-temperature scanning tunneling  
microscope for electron-spin resonance Fabian D.  
Natterer\*?, François Patthey, Tobias Bilgeri, Patrick R.  
Forrester, Nicolas Weiss, and Harald Brune\* Institute of  
Physics, École Polytechnique Fédérale de Lausanne,**

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CH-1015 Lausanne, Switzerland

**A low-temperature atomic force/scanning tunneling ...**  
**A low temperature scanning tunneling microscope for electronic and force spectroscopy. Smit RH(1), Grande R, Lasanta B, Riquelme JJ, Rubio-Bollinger G, Agraït N. Author information: (1)Laboratorio de Bajas Temperaturas, Departamento Física de la Materia Condensada C-III, Universidad Autónoma de Madrid, E-28049 Madrid, Spain. smit@physics.leidenuniv.nl**

**A low temperature scanning tunneling microscope designed ...**  
**System design The difficulty in designing a low-temperature scanning tunneling microscope is in combining good thermal contact to a helium bath with vibration isolation of the instrument. The problem essentially amounts to cooling the sample without**  
**0304-3991/92/\$05.00 992 - Elsevier Science Publishers B.V.**

**A low-temperature scanning tunneling microscopy study on ...**  
**A compact low temperature scanning tunneling microscope View the table of contents for this issue, or go to the journal homepage for more 2009 J. Phys.: Conf. Ser. 150 012007**

**(PDF) Scanning Tunneling Microscope at Low Temperatures**

**Since its introduction in 1996, Scienta Omicron's Low Temperature Scanning Tunneling Microscopy (LT STM) has set the standard for stability, performance and productivity for 4LHe bath cryostat STMs. It is a high**

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quality all-rounder SPM delivering broad scientific output and regularly ground-breaking results employing usually more than one technique.

A low temperature scanning tunneling microscope for ...  
A low temperature scanning tunneling microscope (LTSTM) was built that we could use in an ultra high vacuum (UHV) system. The scanning tunneling microscope (STM) was tested on an existing  $^3\text{He}$  cryostat and calibrated at room, liquid nitrogen and helium temperatures. We analyzed the operational electronic and vibration noises and

TBPP molecules on copper surfaces: a low temperature

...

A low-temperature scanning tunneling microscope has been used to study the (1 1 0)-cleavage surface of indium phosphide (InP) at 4.2 K. InP is a III–V compound semiconductor, and we studied the behavior of doping atoms at different bias voltages in both n- and p-type InP.

LT STM Lab - Scienta Omicron

A scanning tunneling microscope operating at cryogenic temperatures is described. Results from topographic and spectroscopic measurements are presented for surfaces of NbN and graphite at a temperature of 6.5 K. A unique feature of this system is the very low spatial drift and the resulting high positional stability.

A low-temperature scanning tunneling microscope capable of ...

A detailed low temperature scanning tunneling microscope investigation of the intramolecular conformations of individual porphyrin-based molecules

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adsorbed on different copper surfaces is presented. Depending on the substrate geometry, the molecules show different orientations on the surface and different internal configurations.

**(PDF) A low-temperature atomic force/scanning tunneling ...**

**A low-temperature atomic force/scanning tunneling microscope for ultrahigh vacuum F. J. Giessibl, Ch. Gerber,<sup>a</sup>) and G. Binnig IBM Research Division, Physics Group Munich via Universität München, Schellingstrasse 4, D-8000**

**Controlled Manipulation of Atoms and Small Molecules with ...**

**features of scanning tunneling microscope (STM) and, more generally, scanning probe microscope (SPM). The spectroscopic energy resolution of an STM is limited by the Fermi-Dirac distributions of tip and sample. This stimulated the development of dedicated low-temperature SPMs, operating well below the boiling point of liquid helium.<sup>1–5</sup> These**

**Upgrade of a low-temperature scanning tunneling microscope ...**

**2.2 Low temperature scanning tunnelling microscope The cryostat and the scanning unit are shown schematically in fig. 2. The scanning unit is suspended on springs (for vibration insulation) from the bottom of the 4He bath cryostat (T=4.2 K) and shielded from thermal radiation by a 4.2 K radiation shield.**

**Versuch: Low Temperature Scanning Tunnelling Microscopy ...**

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The scanning tunneling microscope (STM) has revolutionized surface science since its invention in 1982 (Binnig and Rohrer, 1982) by providing a means to directly image atomic scale spatial and... Low-Temperature Scanning Tunneling Microscopy | SpringerLink

Color imaging with a low temperature scanning tunneling ...

Color imaging with a low temperature scanning tunneling microscope Germar Hoffmann,a) Jo"rg Kro"ger, and Richard Berndtb) Institut fu "r Experimentelle und Angewandte Physik, Christian ...

(PDF) A compact low temperature scanning tunneling microscope

Low Temperature Scanning Tunneling Microscope Single Molecules molecules are frozen in to a sufficient degree, so that precise working is possible with a rather large number of particles and the artificial structure remains stable. An impression concerning different stages of the buildup work

Upgrade of a low-temperature scanning tunneling microscope ...

A Scanning Tunneling Microscope (STM) allows sample surfaces to be imaged with sub-nanometer topographic resolution and enables local density of states to be directly probed via Scanning Tunneling Spectroscopy (STS). 1–3 1. G.

A Low Temperature Scanning Tunneling

A scanning tunneling microscope (STM) for cryogenic

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temperature and ultra high vacuum environment was built. Extending the operation of STMs to cryogenic temperatures makes typically low ...

### Low-Temperature Scanning Tunneling Microscopy | SpringerLink

A low-temperature atomic force/scanning tunneling microscope for ultrahigh vacuum F. J. Giessibl , Ch. Gerber , and G. Binnig Citation: Journal of Vacuum Science & Technology B 9 , 984 (1991 ...

### Color imaging with a low temperature scanning tunneling ...

We report on the development of a low temperature scanning tunneling microscope (STM) used for imaging molecular adsorbates. The microscope operates near 85 K and features in situ tip and sample exchange. Cooling is accomplished via a clamping mechanism that provides a direct mechanical link between a liquid nitrogen dewar and the STM stage.

### Low-temperature scanning tunneling microscope - ScienceDirect

Color imaging with a low temperature scanning tunneling microscope Article (PDF Available) in Review of Scientific Instruments 73(2):305-309 · February 2002 with 994 Reads How we measure 'reads'

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