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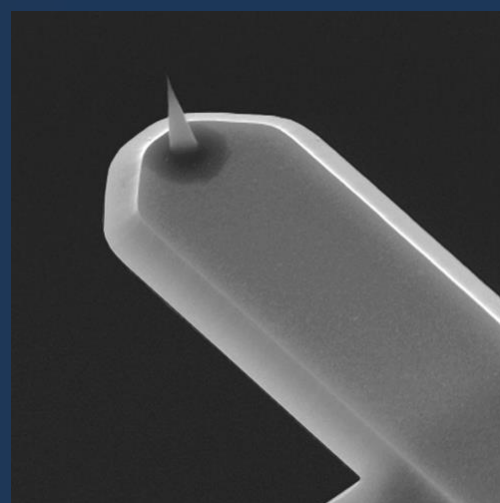
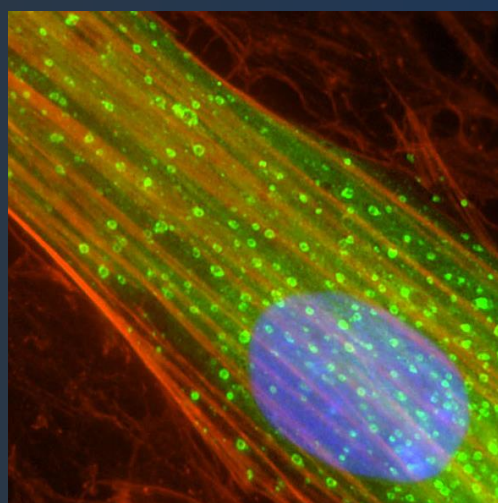
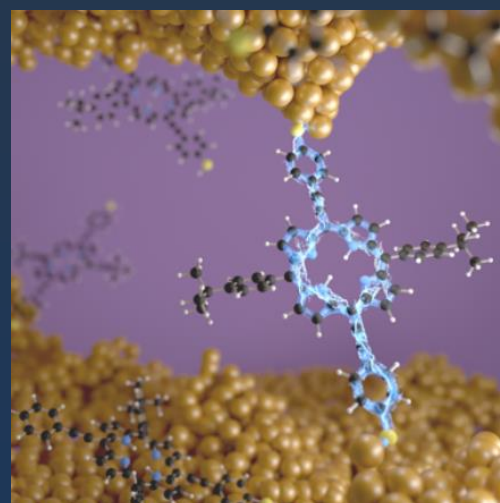
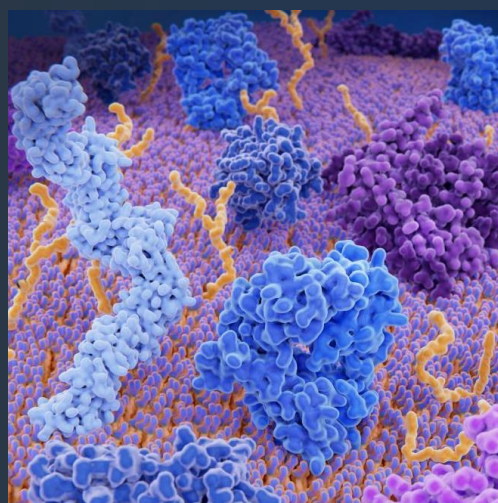
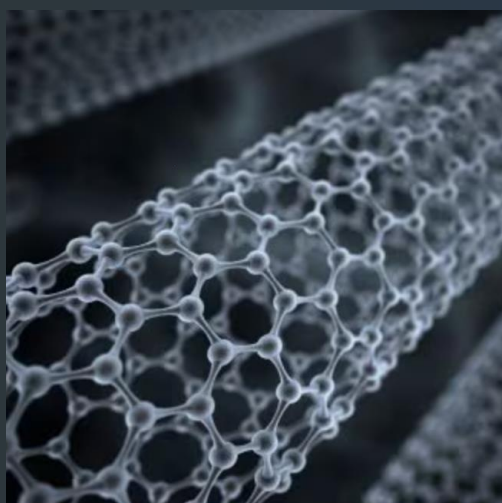


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# Small Talk

## 15. Mai 2024

Klingelbergstrasse 82, 4056 Basel  
Physik Mensa; 8:00-15:00





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8:00 – 8:25

Registration

8:25 – 8:30

Introduction

Anja Car

8:30 – 8:45

Copper Indium Sulfide Quantum Dots (CIS QDs) as a Light-Harvesting system

Yannik Schnider

8:45 – 9:00

Surface modifications of titanium implants

Nina Bonderer

9:00 – 9:15

A self-assembling peptide nanoparticle for the entrapment of rifampicin

Salome Brunner

9:15 – 9:30

Investigation of  $\text{Ca}^{2+}$  sweet-spot concentration to improve the mechanical properties of the adhesin-gellan hydrogel.

Senhong Cao

Coffee Break



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10:15 – 10:30

Investigation of the insertion of synthetic molecular switches and encapsulation of Atto647 in polymersomes

**Karthekan Sivasubramaniam**

10:30 – 10:45

Towards scalable spin qubits: Probing stability diagrams and g-factors of a fin field-effect transistor hole spin qubit

**Timon Eya**

10:45 – 11:00

Mechanical Testing and Self-Healing of Thermoplastic Polyurethane

**Abisika Sutharsan**

11:00 – 11:15

Formation of 2D molecular networks on Cu(111) by adsorption of DPDI

**Leon Pfeifer**

**Lunch Break & Poster Session**



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13:15 – 13:30

Assessing whether the murine place cell network can distinguish between highly similar environments

**Alain Bubendorf**

13:30 – 13:45

Synthesis of Gold Nanoparticles for Rapid Pathogen Detection

**Sofia Marcucci**

13:45 – 14:00

Investigation of D7H and DT7H on Au(111) surface by nc-UHV AFM

**Gabriel Eisler**

# Closing Remarks, Awards & Aperero

Prof. Martino Poggio



**Cation**  
cat•i•on

Pronunciation: [kat-ahy-uh n, -on]

-noun, Chemistry

1. An ion with a paws-itive charge.
2. The cutest ion ever.