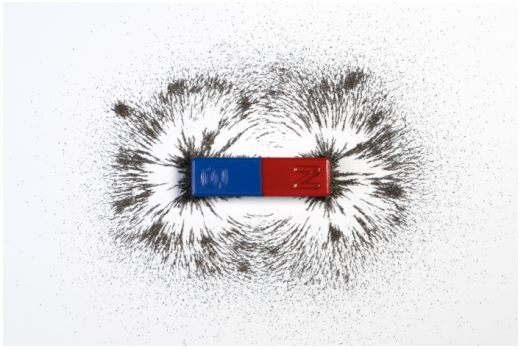
Spins on Surfaces (S0SIV)



31.Aug - 04.Sep 2026

Cod. Z65-26

Mod.:
Face-to-face

Edition
2026

Activity type
Workshop

Date
31.Aug - 04.Sep 2026

Location
Miramar Palace

Languages
English

Academic Validity
50 hours

Web
http://sos4.dipc.org/

Organising Committee

Description

Following the very successful previous series of SoS workshops at the Miramar palace, we plan on hosting the fourth SoS workshop. The topic is timely and in expansion. We increase the original scope of the workshop to include the very exciting developments in quantum information thanks to the new ability of the scanning tunneling microscope (STM) to measure and control quantum spins. Then, the workshop will be devoted to the study of single magnetic adsorbates on solid surfaces, their detection, manipulation, and encoding of quantum information. The single magnetic moments can be in atomic or molecular form, both systems having interesting properties to explore. Of great interest, the detection of spin resonance signal is becoming a landmark, and it is important to keep updated in this quickly developing field. The problems of correlations and the building in of information by manipulation and assembling quantum objects in a bottom up approach will also be a key component of the workshop.

ORGANIZING COMMITTEE:

- Deung-Jang Choi (CFM-MPC, DIPC, Ikerbasque)
- Andreas Heinrich (QNS)

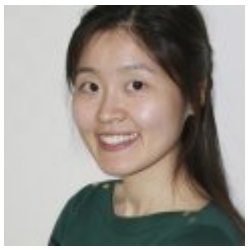
Objectives

The Scanning Tunneling Microscope is giving unprecedented insight into quantum phenomena on the atomic scale. The objective of this meeting is to share the state-of-the-art among the actors in this field, as well as among interested students/researchers in related areas.

Course specific contributors

Donostia International Physics Center

Directed by



Deung-Jang (DJ) Choi

Centro de Física de Materiales (CSIC-UPV/EHU)

Registration fees

REGISTRATION FEES	UNTIL 23-08-2026
Fee Waiver	0 EUR
Regular Fee	380,00 EUR

Place

Miramar Palace

Pº de Miraconcha nº 48. Donostia / San Sebastián

Gipuzkoa