

Symposium Decoherence in the Light of Modern Experiments (SYDC)

jointly organized by
 the Atomic Physics Division (A),
 the Molecular Physics Division (MO), and
 the Quantum Optics and Photonics Division (Q)

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Overview of Invited Talks and Sessions

(lecture room E 415)

Invited Talks

SYDC 1.1	Tu	14:00–14:30	E 415	Environment-induced Decoherence of Quantum States: An Introduction — •HEINZ-PETER BREUER
SYDC 1.2	Tu	14:30–15:00	E 415	Fighting Decoherence: Quantum Information Science with Trapped Ca⁺ Ions — T. MONZ, K. KIM, A. VILLAR, P. SCHINDLER, M. CHWALLA, M. RIEBE, C. F. ROOS, H. HÄFFNER, W. HÄNSEL, M. HENNICH, •R. BLATT
SYDC 1.3	Tu	15:00–15:30	E 415	Decoherence phenomena in molecular systems: Localization of matter waves & stabilization of chiral configuration states — •KLAUS HORNBERGER
SYDC 1.4	Tu	15:30–16:00	E 415	Decoherence of free electron waves and visualization of the transition from quantum- to classical-behaviour — •FRANZ HASSELBACH
SYDC 2.1	Tu	16:30–17:00	E 415	Coherence and the loss of it in molecular photoionization — •UWE HERGENHAHN
SYDC 2.2	Tu	17:00–17:30	E 415	Decoherence in fermionic interferometers — •FLORIAN MARQUARDT
SYDC 2.3	Tu	17:30–18:00	E 415	Quantum diffusion in gravitational waves backgrounds — •SERGE REYNAUD, BRAHIM LAMINE, RÉMY HERVÉ, ASTRID LAMBRECHT
SYDC 2.4	Tu	18:00–18:30	E 415	Quantum coherence and decoherence in biological systems — •MARTIN PLENIO

Sessions

SYDC 1.1–1.4	Tu	14:00–16:00	E 415	Decoherence in the Light of Modern Experiments I
SYDC 2.1–2.4	Tu	16:30–18:30	E 415	Decoherence in the Light of Modern Experiments II