

Intersectional Symposium Cultural Heritage in the Light of Physical Methods (SYCH)

lead by the Atomic Physics Division (A)

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History of arts and archeology are supposed to reveal the generation of cultural objects being produced in the past. However, in many cases this process is not known, oftentimes no documents on the history of the objects do exist at all. Physical methods such as X-ray fluorescence spectroscopy, mass spectrometry, and neutron autoradiography do provide valuable insights into the materials and the way of producing the art objects, information being forgotten over time. Even more, these methods make it possible to reconstruct the generation of an art object. In particular, looking underneath the surface of a painting reveals its production step by step hundreds of years after its original creation.

Overview of Invited Talks and Sessions

(lecture room HSZ 02)

Invited Talks

SYCH 1.1	Thu	14:00–14:30	HSZ 02	Radiocarbon dating of cultural objects: Limit — ●HANS-ARNO SYNAL
SYCH 1.2	Thu	14:30–15:00	HSZ 02	From Lascaux to Rembrandt. Insights into invisible traces of paintings and drawings from physical methods — ●INA REICHE
SYCH 1.3	Thu	15:00–15:30	HSZ 02	IPANEMA, A European research platform for the study of ancient and historical materials — ●LOÏC BERTRAND
SYCH 1.4	Thu	15:30–16:00	HSZ 02	3D X-ray view of treasures — ●BIRGIT KANNGIESSER, IOANNA MANTOUVALOU, WOLFGANG MALZER
SYCH 2.1	Thu	16:30–17:00	HSZ 02	Looking below the surface of paintings by help of neutrons — ●CLAUDIA LAURENZE-LANDSBERG, CARL OTTO FISCHER
SYCH 2.2	Thu	17:00–17:30	HSZ 02	X-ray fluorescence analysis using synchrotron radiation excitation — ●MARTIN RADTKE, GÜNTER BUZANICH, UWE REINHOLZ, HEINRICH RIESEMEIER
SYCH 2.3	Thu	17:30–18:00	HSZ 02	Metabolic tools to study wine body — ●OLIVER FIEHN, KIRSTEN SKOGERSON, GERT WOHLGEMUTH
SYCH 2.4	Thu	18:00–18:30	HSZ 02	Identification of Ancient Plant Textiles — ●BODIL HOLST, BRIDGET MURPHY

Sessions

SYCH 1.1–1.4	Thu	14:00–16:00	HSZ 02	Cultural Heritage in the Light of Physical Methods I
SYCH 2.1–2.4	Thu	16:30–18:30	HSZ 02	Cultural Heritage in the Light of Physical Methods II