

Forschungs- Mittwoch

#199

HKB Forschung

Institut Materialität in
Kunst und Kultur

29. April 2026
17 Uhr

HKB, Auditorium
Fellerstrasse 11
3027 Bern und online

Multispectral imaging for the examination of artworks

Der Vortrag stellt die Entwicklung der neuartigen Multispectral Imaging Kamera MATIS Thalia für die nicht-invasive Untersuchung von Kunstwerken vor. Diskutiert werden Anwendungsmöglichkeiten, Softwaremodelle zur Farbmittelcharakterisierung und derzeit noch bestehende Einschränkungen. Der Vortrag endet mit einer Live-Demonstration der neuen Kamera.

Referentin: Marie Eve Didier

Moderator: Cornelius Palmbach

Host: IMIKUK

Hinweis: Veranstaltung auf Englisch

Zoom-Link:

<https://hkb-bfh-ch.zoom.us/j/95025396812>

This lecture presents the development of multi-spectral imaging (MSI) tools for the non-invasive examination of artworks. It starts with an overview of MIEWA, a joint research project of HKB, CSEM and MATIS, the Swiss company that developed the new MATIS Thalia camera and the MATIS Studio web application for image processing. Through concrete examples, it will be illustrated how MSI can support the study of artworks by revealing features not visible to the naked eye, such as underdrawings, retouching, pigment variations, or surface alterations. Potential applications in conservation and technical art history will be discussed, as well as the implementation of analytical models, including machine learning approaches, to assess and classify colorants. The lecture will also address the current limitations, including spectral constraints and interpretation challenges. It will conclude with a live demonstration of the Thalia camera.