

**Tuesday, 7. May 2024, 16:00 s.t.  
Room R4/23, Building L6 | 01**

**ZOOM Meeting ID: tbc**

## **Kadi4Mat: Our Experience in a TEM and FIB-Lab of the User-Facility KNMF<sup>i</sup>**

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In this presentation, I will show our approach of using the web-based application Kadi4Mat (KadiWeb) as an ELN in a user-facility environment. Kadi4Mat is a database, developed at KIT as an electronic laboratory notebook (ELN) combined with an integrated instrument database. Therefore, it is very easy to use, and it is very easy to create appropriate templates and records, even as non IT-experts (as we are!).

In a first step, it is necessary to think about “documentation” of experiments in general, and data produced during an experiment. I will explain shortly the MaTeLiS-Instrument database in Kadi4Mat, and show how templates and records can be created. Using a virtual research scenario, as it might appear in a user-facility, the strategy of our templates will be explained. We therefore developed a series of templates related to TEM / FIB / SEM investigations, and sample preparation. The single elements can be considered as “atomistic” process steps, enabling a flexible combination to generate records like in a workflow. In one use-case, I will demonstrate a “knowledge graph” to visualize the cross-linking of the records.

A life demo of the system is planned, if there is interest and time.