

DAPHNE4NFDI TA1 Lecture series:

„Data for science“

Tuesday January 23rd 2024, 14:00 CET, Zoom platform

„Challenges in Cross-Community Data Exchange in NFDI4Cat“

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Catalysis, a multi-disciplinary field, presents unique challenges in establishing FAIR (Findable, Accessible, Interoperable, and Reusable) research data management. Its broad scope encompasses areas such as photocatalysis, homogeneous and heterogeneous catalysis, and the growing fields of electro- and biocatalysis. It intersects with fundamental sciences like chemistry, physics, and mathematics, as well as applied fields like chemical engineering. Therefore, NFDI4Cat has to address the cross-community data exchange challenge already for its own community.

Recognizing these complexities, NFDI4Cat has adopted a different approach than other NFDIs. We understood that a single web-service solution would not suffice for our diverse community. Instead, we have concentrated on developing tools and standards that can address these challenges at a more fundamental level. Our efforts have been focused on creating vocabularies, PIDs, ontologies, and interfaces between tools which will be focussed on in the talk. For data management, we leverage solutions developed for the European open data portal, which are grounded in linked data principles. Our ultimate goal is to enable the creation of knowledge graphs, thereby enhancing the accessibility and utility of catalysis research data.

The talk can be followed at:

<https://helmholtz-berlin-de.zoom.us/j/81438239356?pwd=VFFjUjJqaVpQd0tsYVBBTCtGK21Odz09>

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