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Accessible Communication:
You can access the digital version of the leaflet via the following website or QR code:

cloudstore.zih.tu-dresden.de/index.php/s/jJdmCaEP87LNnkc

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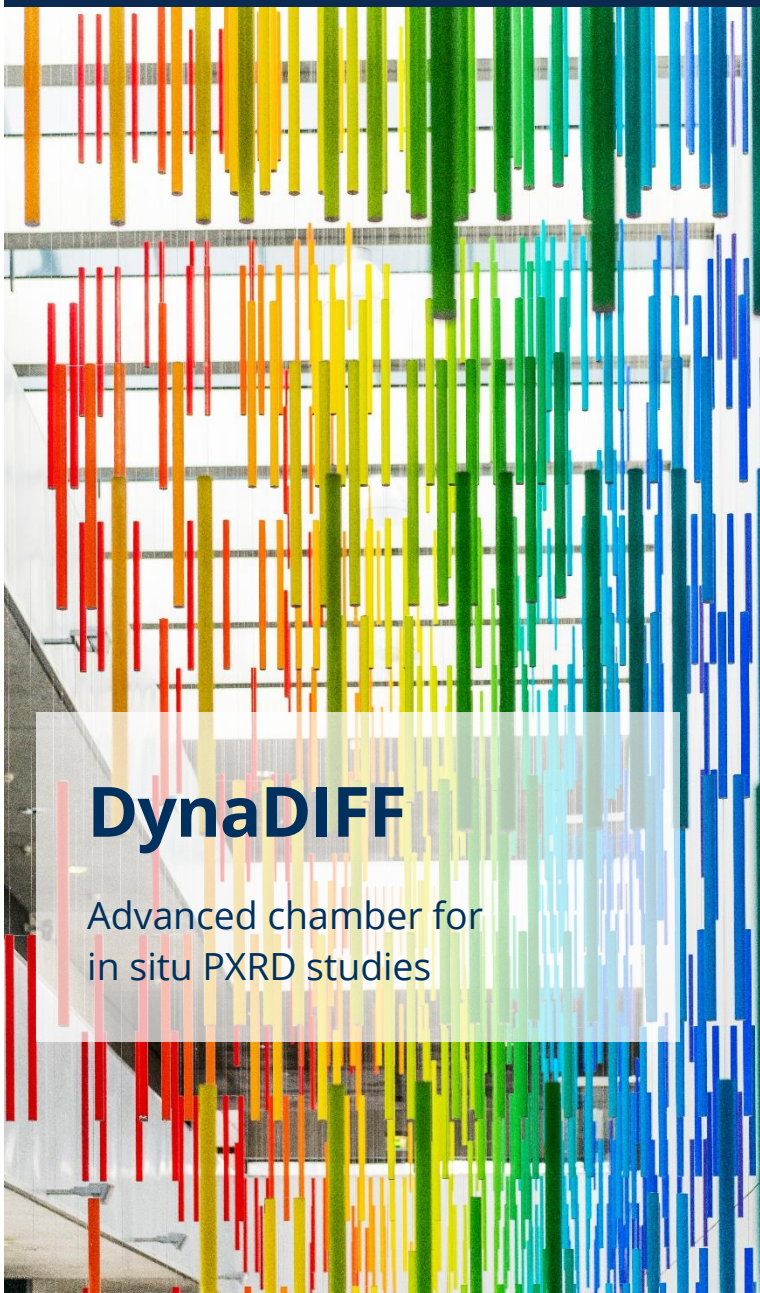
Member in the network of: DRESDEN concept

TECHNISCHE UNIVERSITÄT DRESDEN



DynaDIFF

Advanced chamber for in situ PXRD studies

DynaDIFF

Advanced chamber for in situ PXRD studies in controlled gas atmospheres using laboratory X-ray diffractometers.

Main features:

- vacuum-tight
- small “dead volume” of the chamber
- suitable for a broad temperature (4 – 600 K)
- compatible with all non-corrosive gases (nitrogen, carbon dioxide, hydrocarbons (C1-C4), argon,) and vapours (dichloromethane, methanol, ethanol, acetone) from vacuum to atmospheric pressure
- sample holders for Debye-Scherrer and Bregg-Brentano diffraction geometries
- variety of X-ray transparent materials for the dome
- optional connection to volumetric adsorption instrumentation

Service

To meet various demands in configuration of the DynaDIFF chamber with measuring equipment we offer:

- DynaDIFF chamber for dedicated applications (X-ray transparent doms, sample holders, setups)
- service measurements (in situ PXRD in parallel to gas/vapour physisorption)
- consulting and support

Application

The DynaDIFF chamber is suitable for measurement of various type of organic and inorganic materials, in particular MOFs, COFs, zeolites, intermetallics.