

## Instrument-specific annex – ProCon X-ray Computed Microtomography System CT-ALPHA

June 2022

### Instrumentation and services

The ProCon X-ray Computed Microtomography System CT-ALPHA hereinafter referred to as  $\mu$ -CT, is a scientific instrument of the MAPEX Core Facility for Materials Analytics (MAPEX-CF).

The services include scanning, reconstruction of the measurement data, and short-term provision of the data to the users. Additional scientific work can be included upon mutual agreement between the user and the application scientist.

### Equipment, responsible personnel, and contact details

The resources present at the  $\mu$ -CT are specified in the MAPEX instrument database. The responsible application scientist is Dr. Wolf-Achim Kahl and the principal investigator is Prof. Wolfgang Bach.

Contact for inquiries	Instrument location
Dr. Wolf-Achim Kahl MAPEX Center for Materials and Processes University of Bremen Am Fallturm 1, D-28359 Bremen Phone: +49 421 218 64581 wakahl@uni-bremen.de	GEO building, room 1470 Fachbereich Geowissenschaften University of Bremen Klagenfurter Straße 4, D-28359 Bremen Germany

### User obligations

When results obtained in the MAPEX-CF are published, the MAPEX-CF must be explicitly acknowledged [mentioning 'University of Bremen, MAPEX Core Facility for Materials Analytics' as the instrument's affiliation]. Users shall inform the MAPEX-CF instrument manager about any publications or patents based on results obtained at the MAPEX-CF. This includes, but is not limited to, scientific publications, annual reports, posters, and newspaper announcements. In case of significant scientific contribution of MAPEX-CF members to a publication (e.g. data analysis and interpretation), the involved researchers must be listed as co-authors.

## Types of operation, usage groups, and costs

In general, the  $\mu$ -CT is operated under service operation, as defined in section §4(2) of the *MAPEX-CF General user rules and guidelines*. In agreement with the responsible application scientist, application operation is possible within the framework of extensive collaborations. For this, a two-day basic training course at the cost of 1200 € is required.

Category	Description	Usage share	Cost per hour	
			Equipment usage	Technical or scientific support
T	Teaching personnel and students in the framework of study programs of the University of Bremen.	5%	0 €	0 €
A	Members of the groups directly running the instruments for method development, testing, and preliminary project work.	20%	0 €	0 €
B	Members of the University of Bremen.	40%	52 €	60 €
C	Members of external institutions using MAPEX-CF in the context of publicly-funded research projects.	30%	52 €	105 €
D	Members of private institutions using MAPEX-CF for commercial purposes.	5%	Upon request	Upon request

The usage costs in service operation only include measurement and data preparation (reconstruction). Sample preparation and data evaluation is charged on a time and material basis. The costs for usage under category B correspond to the project-specific costs as defined by the DFG requirements 55.04. For use in category C and D, the costs do not include the currently valid sales tax.