

PETRA IV Scientific Instrumentation Proposal ID-

Title

Speaker of Proposal	
Name	
Institute	
City/Country	

Co-Proposers

Abstract

Required X-ray beam and experiment specifications	
X-ray beam specifications	
Photon energy and/or range (keV)	
Energy resolution at required photon energy ($\Delta E/E$)	
Spot size on sample (h x v) and/or range (nm)	
Divergence of the beam (h x v) and/or range (mrad)	
Depth of focus and/or range (μm)	
Required flux on sample (ph/s)	
Required coherent flux on sample (ph/s)	
Photon polarization	
PETRA IV operation mode (Brightness or Timing)	
Other required properties (free text)	
Experiment Specification (Details in proposal)	
Experimental method/technique	
Photon energy scannable	
- (if yes) Scan type	
- (if yes) Scan speed ($\mu\text{m/s}$, degree/s)	

Sample scannable	
- (if yes) Scan type	
- (if yes) Scan range (μm / degree)	
- (if yes) Scan speed ($\mu\text{m/s}$, degree/s)	
Sample Environment (Temperature/Pressure/B-Field)	
Sample size/dim (h x v x l)	
Sample weight	
Temperature Stability at the sample (K)	
Explicit detectors / Detector specification (free text)	
Technical equipment (free text)	
Computing and IT (free text)	
Explicit type and/or demands of experiment	
Science and Technology Drivers (CDR)	
Research Category	
Other required specification (free text)	
Required On-site Infrastructure	
Required Laboratory (Bio S2/Clean room)	
NanoLab	
Other on-site infrastructure (free text)	