

**Please note: all DORIS beamlines are no longer available -
DORIS III was shut down on 22nd Oct. 2012!**

List of DORIS III beamlines in 2012

A1 X-ray absorption spectroscopy			
Bending magnet ($E_c = 16$ keV)			
Instrument for in-situ XAFS including fast energy scanning	2.4 – 8 keV	DESY	
A2 Small-angle X-ray scattering			
Bending magnet ($E_c = 16$ keV)			
Multi setup instrument for (simultaneous) small and wide angle scattering from soft matter samples	8 keV	DESY	
B1 Anomalous small-angle X-ray scattering			
Bending magnet ($E_c = 16$ keV)			
Instrument for anomalous scattering (ASAXS)	5 – 35 keV	DESY	
B2 X-ray powder diffraction			
Bending magnet ($E_c = 16$ keV)			
Heavy duty diffractometer including special setups for in-situ studies	5 – 44 keV	DESY	
BW1 X-ray diffraction / scattering			
4 m X-ray undulator			
Horizontal diffractometer for liquid surface scattering	9.5 keV	DESY	
UHV instrument for surface diffraction / standing waves including MBE sample preparation	2.4 – 12 keV	DESY U Bremen	
Multi purpose heavy load 8-circle diffractometer	5 – 18 keV	DESY	
Rheometer	9.9 keV	DESY	
BW2 X-ray spectroscopy / diffraction / tomography			
4 m X-ray wiggler ($E_c = 15.4$ keV)			
UHV instrument for hard X-ray photoelectron spectroscopy	2.4 – 10 keV	DESY	
X-ray micro-tomography setup	6 – 24 keV	HZG	
Heavy load vertical diffractometer with CCD detector arm for grazing incidence diffraction	5 – 11 keV	DESY	
BW3 Soft X-ray spectroscopy			
4 m XUV (double) undulator			
High-resolution SX-700 plane grating monochromator, beam port for user supplied instruments	50 – 1500 eV	DESY	
BW4 Ultra small-angle X-ray scattering			
2.7 m X-ray wiggler ($E_c = 15.4$ keV)			
Flexible instrument for (ultra) small angle (grazing incidence) scattering experiments	6 – 14 keV	DESY	
BW5 High-energy X-ray diffraction			
4 m X-ray wiggler ($E_c = 26$ keV)			
Triple axis diffractometer in horizontal Laue scattering geometry including high magnetic field (10 T) sample environment	60 – 250 keV	DESY	

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BW7A Macromolecular crystallography			
4 m X-ray wiggler ($E_c = 15.4$ keV)			
Crystallographic end-station with CCD detector, double multilayer optics, optimized for high-flux fast data collection	12.8 keV	EMBL	
BW7B Macromolecular crystallography			
4 m X-ray wiggler ($E_c = 15.4$ keV)			
Crystallographic end-station with CCD detector, new high-precision Phi spindle, EMBL Hamburg robotic sample changer (MARVIN)	14.7 keV	EMBL	
C X-ray absorption spectroscopy / diffraction			
Bending magnet ($E_c = 16$ keV)			
Setup for high-energy XAFS in-situ studies including fast energy scanning	5 – 44 keV	DESY	
Vertical diffractometer for grazing incidence X-ray diffraction	5 – 44 keV	DESY	
D1 (X33) Small-angle X-ray scattering			
Bending magnet ($E_c = 16$ keV)			
Instrument optimized for automated solution scattering studies of biological macromolecules	8 keV	EMBL	
D3 Chemical crystallography			
Bending magnet ($E_c = 16$ keV)			
4-circle diffractometer	8 – 50 keV	DESY	
D4 Grazing incidence X-ray scattering			
Bending magnet ($E_c = 16$ keV)			
2-circle diffractometer, horizontal scattering plane	5 – 20 keV	DESY	
E1 (Flipper2) Soft X-ray spectroscopy			
Bending magnet ($E_c = 16$ keV)			
UHV instrument for soft X-ray photoelectron spectroscopy	10 – 150 eV	U Hamburg	
E2 X-ray reflectometry / grazing incidence diffraction			
Bending magnet ($E_c = 16$ keV)			
6-circle diffractometer for reflectometry & high-resolution diffraction	4 – 35 keV	DESY / RWTH Aachen	
F1 Chemical crystallography			
Bending magnet ($E_c = 16$ keV)			
Kappa-diffractometer for low/high-temperature / high-pressure single-crystal diffraction	5 – 41 keV white beam	U Hamburg	
F2 X-ray diffraction / VUV spectroscopy			
Bending magnet ($E_c = 16$ keV)			
Hutch1 MAX80 Multi-Anvil-X-ray apparatus for high pressure X-ray diffraction	5 – 80 keV white beam	GFZ	
Hutch2 UHV instrument for angle-resolved UV photoelectron spectroscopy	5 – 41 eV	U Hamburg	
F3 Energy dispersive scattering			
Bending magnet ($E_c = 16$ keV)			
Horizontal diffractometer with heavy load sample stage	white beam	DESY U Kiel	

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F4 X-ray test beam			
Bending magnet (Ec = 16 keV)			
Used for detector characterization			DESY
G3 Diffraction X-ray imaging			
Bending magnet (Ec = 16 keV)			
4-circle diffractometer for position resolved diffraction	5.4 – 26 keV		DESY
I Superlumi) UV luminescence spectroscopy			
Bending magnet (Ec = 16 keV)			
Superlumi setup for luminescence analysis	3 – 40 eV		DESY
K1.1 (X11) Macromolecular crystallography			
Bending magnet (Ec = 16 keV)			
Crystallographic end-station with large surface area flat panel detector, cryoshutter, single horizontal axis of rotation	15.3 keV		EMBL
K1.2 (X12) Macromolecular crystallography			
Bending magnet (Ec = 16 keV)			
Crystallographic end-station with CCD and fluorescence detector, single axis of rotation, opt. for MAD and SAD	6 – 18 keV		EMBL
K1.3 (X13) Macromolecular crystallography			
Bending magnet (Ec = 16 keV)			
Crystallographic end-station with CCD detector, cryoshutter, micro-spectrophotometer, single horizontal axis of rotation, optimised for automated expert data collection	15.3 keV		EMBL
L X-ray micro probe			
Bending magnet (Ec = 16 keV)			
X-ray microprobe combining fluorescence analysis, absorption spectroscopy and diffraction	5 – 80 keV white beam		DESY
W1 X-ray spectroscopy / diffraction			
2 m X-ray wiggler (Ec = 8 keV)			
High-resolution fluorescence in vacuo spectrometer	4 – 11.5 keV		DESY
Heavy load diffractometer for grazing incidence diffraction in vertical or horizontal scattering geometry	4 – 11.5 keV		DESY
W2 (HARWI II) High-energy X-ray engineering materials science			
4 m X-ray wiggler (Ec = 26 keV)			
Hutch1 Materials Science Diffractometer (heavy load up to 600 kg)	60 – 250 keV		HZG
Micro-tomography setup (attenuation and phase contrast)	20 – 250 keV		HZG
Diffraction-tomography "DITO" instrument	20 – 150 keV		TU Dresden TU Berlin
Hutch2 MAX200x Multi-Anvil X-ray apparatus for high pressure and temperature conditions	white beam		GFZ
X1 X-ray absorption spectroscopy			
Bending magnet (Ec = 16 keV)			
Setup for high-energy fast-scanning XAFS for in-situ studies including chemistry lab	7 – 100 keV		DESY