

Post-EBS ID23-1 News

- Old optics
- Old minidiff removed and replaced by the ID29 MD2
- PC reconfiguration + modifications of dedicated wago device or other devcies (MD permit, connection to the Flex and the Rex, etc...)
- New MxCube

Start-Up was successful !!!

Flux increased by 8 times

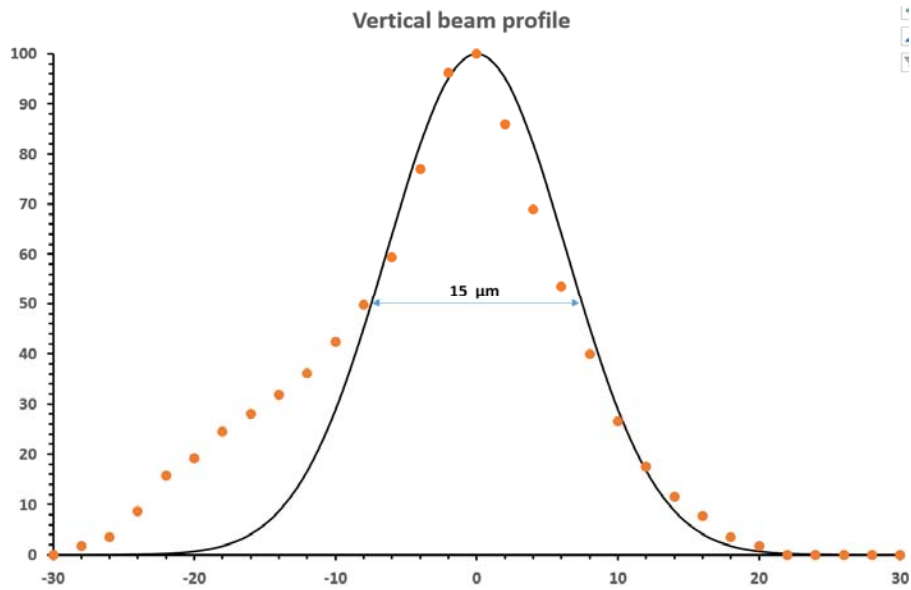
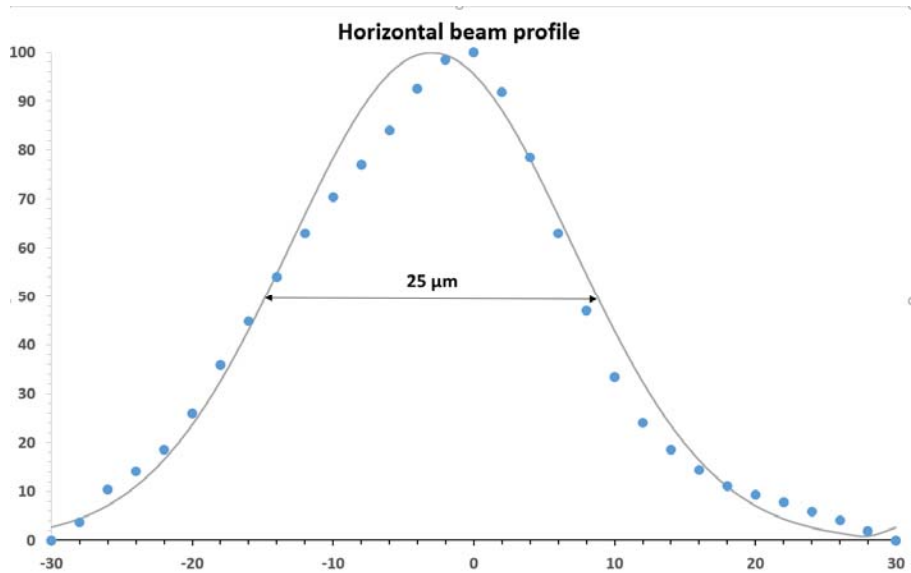
Beam sizes reduced about 10 μm

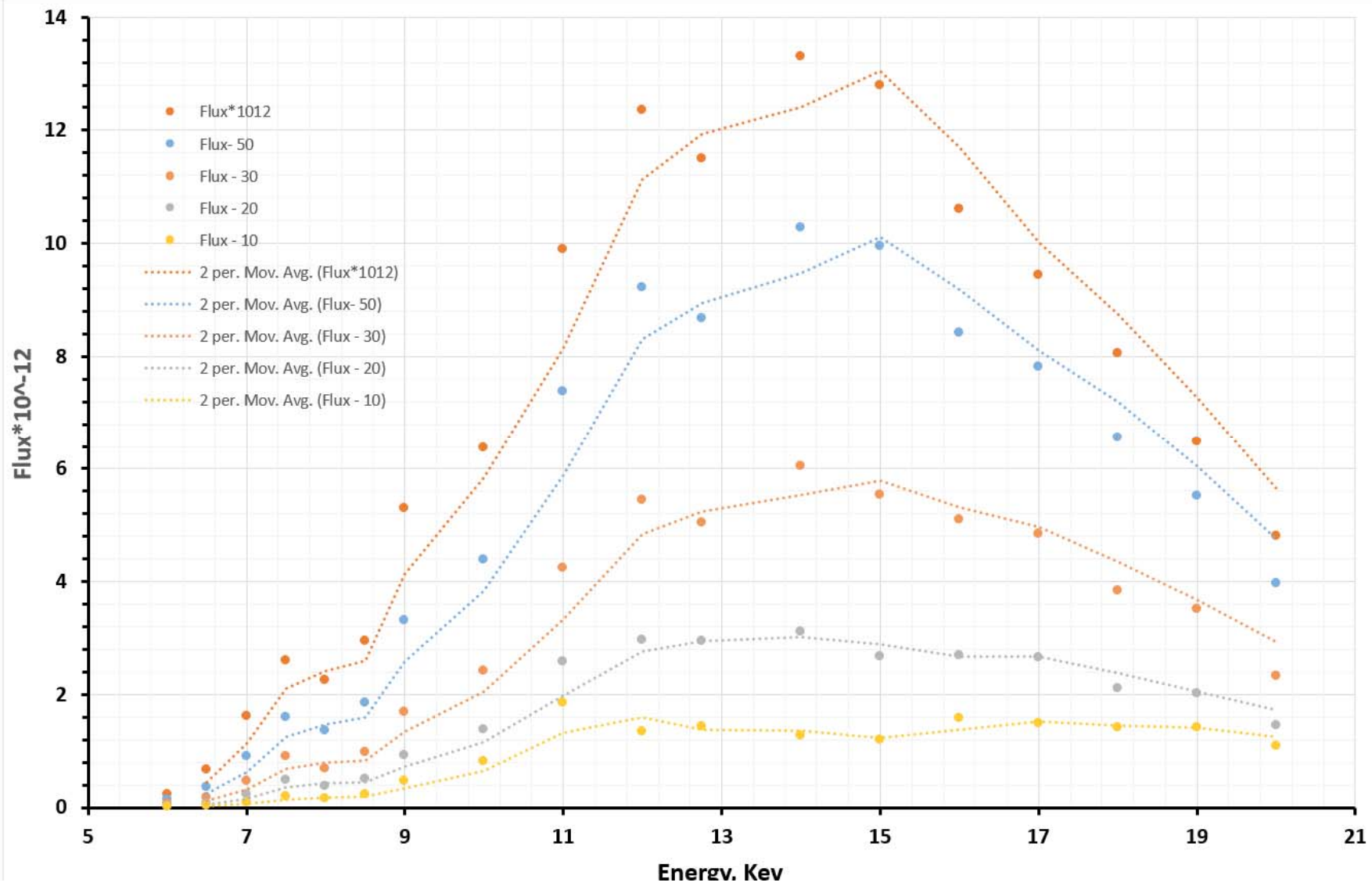
20 MGy : 10 s – 50 μm

: 6 s – 30 μm

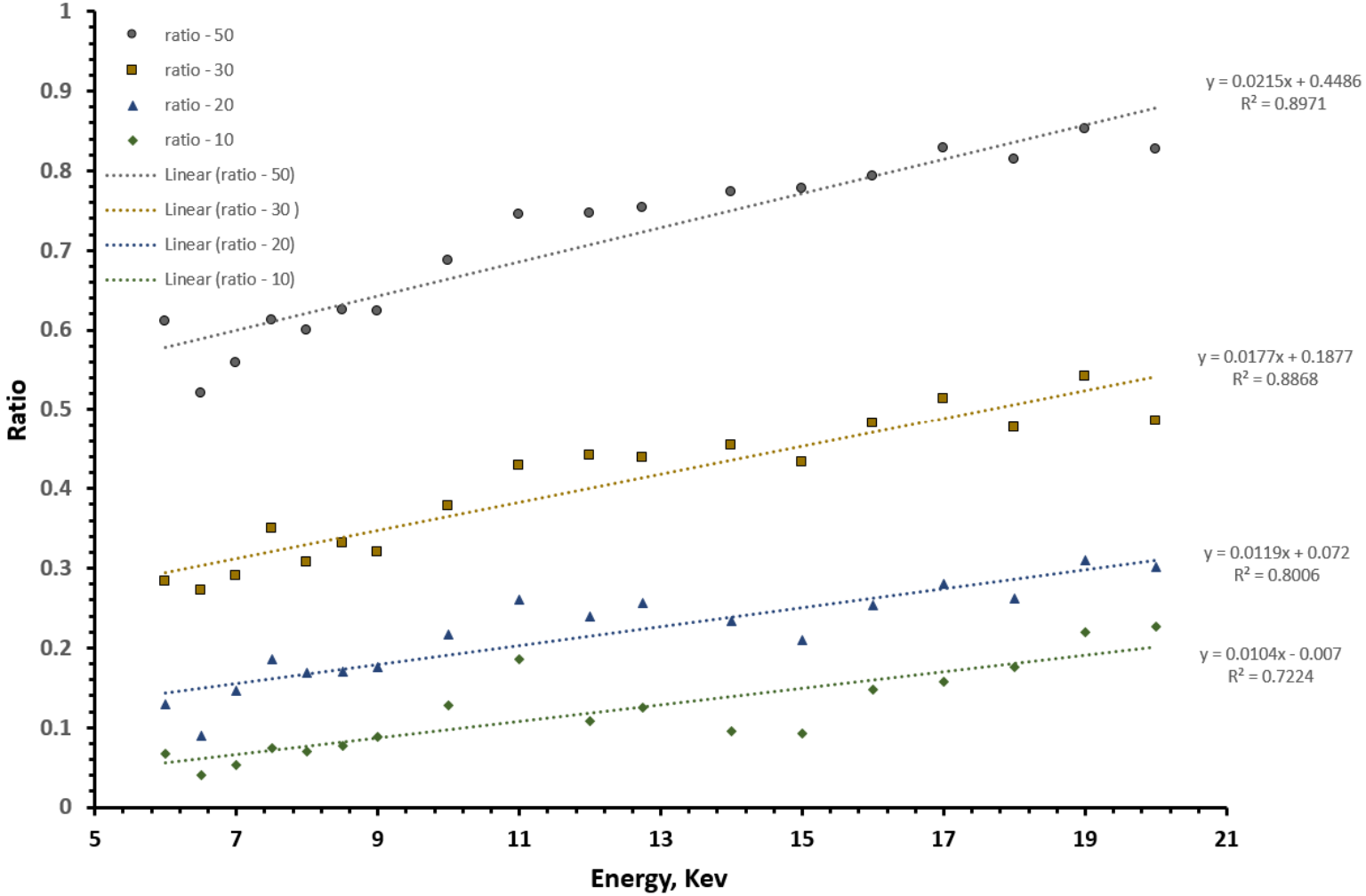
: 5 s – 20 μm

: 3 s – 10 μm





Ratio: Aperture beam/Full beam



March



ID23-1 in 2021

Specifications EIGER2 S 16M

Number of detector modules	4 x 8
Sensitive area (width x height) [mm ²]	311.1 x 327.2
Pixel size [μm ²]	75 x 75
Total number of pixels	4148 x 4362 = 18,093,576
Gap width vertical / horizontal [pixels]	12 / 38
Energy discriminating thresholds	2
Count rate capability [photons/s /pixel]	10 ⁶
Point-spread function [pixel]	1 (FWHM)
Silicon Sensor thickness [μm]	450
Data format	HDF5 / NeXus
Optional vacuum compatibility	no
Frame rate [Hz] [Hz]	25
Energy range [keV]	6.0 - 40
Dimensions (WHD) [mm ³]	400 x 430 x 500
Weight [kg]	55

Last week of March

1 The MD2S Microdiffractometer

The MD2S is a single-crystal diffractometer for macromolecular X-ray crystallography experiments on synchrotron beamlines. The MD2S comes with additional features compared to the well-known MD2 and opens new possibilities for in-situ measurements with 96-well plates, e.g. "plate screening".

