

ID3 Characteristics

Source

Undulators in low beta section		
ID	Undulator	Undulator
Magnet period	42mm	42mm
K (at 20 mm gap)	1.68	1.68
Maximum field (16 mm gap)	0.58 T	0.58 T
Source Size (FWHM)	0.134x0.024 mm ² (HxV)	0.134x0.024 mm ² (HxV)
Total power	1.9 kW	1.9 kW

Optics

Optical elements	Si(111) monochromator	Two flat mirrors
Distance from source	30 m	33 m
Distance to sample	15 m	12 m
Surface	Si	Rh
Focusing	sagittal	none
Beamsize at sample	0.1x 0.8 mm ² (HxV)	
Spectral range	5-25 keV	
$\Delta E/E$	$\sim 10^{-4}$	
Flux at the sample (measured)	2×10^{12} ph s ⁻¹ at 100 mA and 14 keV and 21 mm gap	

Detectors	Two NaI scintillators and one CCD camera
Beamline control	VME, UNIX , SPEC