



Maximum Current	mA	200
Horizontal Emittance	nm	4
Vertical Emittance (*minimum achieved)	nm 0.025	(0.010*)
Coupling (*minimum achieved)	% 0.6	(0.25*)
Revolution frequency	kHz	355
Number of bunches	1	to 992
Time between bunches	ns 2810	5 to 2.82











## A Light for Science

Bragg's law:  $d = \lambda/2\sin(\theta)$ 

ESRF

Laue diffraction: Wavelength (energy) and angle variable, collect images at various angles.

Energy dispersive diffraction: Wavelength (energy) variable, angle fixed, orient the sample.

Angle dispersive diffraction: Wavelength (energy) fixed, angle variable, collect images while sample is rotating.

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Laue diffraction image of a myoglobin crystal 100 ps after flash photolysis, M. Wulff et al. (ID09B)







ESRF	A light for Science	
Rotation range		
<ul> <li>1</li> <li>1</li> <li>1</li> <li>2</li> <li>2</li> <li>3</li> <li>4</li> <li>4&lt;</li></ul>	Membrane driven LeToullec type diamond anvil cell, modified for Boehler-Almax anvils.	
	Large opening angle, ±32° rotation range (3.1 mm dia.), completeness ~ 30% Pressures (with He): 30 GPa with 600 µm culet, 85 GPa with 300 µm culet (with Re gasket).	
European Synchrotron Radiation Facility	Bergen, Aug. 2012 12	





















