

Optical Design: Summary

SYSTEM	BEAMLINE	SPECTROMETER							COMBINED	
	ph/s	Grating l.mm ⁻¹	Grating Effic.	Mirror Reflect.	H acc mrad	V acc mrad	ΔE meV	ΔE meV	Relative Throughput	
SAXES (SLS)	6×10^{12}	3200	0.05	1	5.1	4	~100	140	1	
SIX medium	9×10^{12}	1250	0.15	0.7*0.66	30	5	32	86	15	
SIX high	2×10^{12}	2500	0.06	0.7*0.54	30	5	20	31	1.2	
SIX ultrahigh	3×10^{11} 1.5×10^{11}	2500	0.06	0.7*0.54	30	5	10	16 14	0.2 0.1	

- RIXS at ~ 90 meV resolution with high throughput
- RIXS at ~ 15 meV resolution with usable throughput

THANK YOU FOR YOUR ATTENTION

You in a couple of years...?

