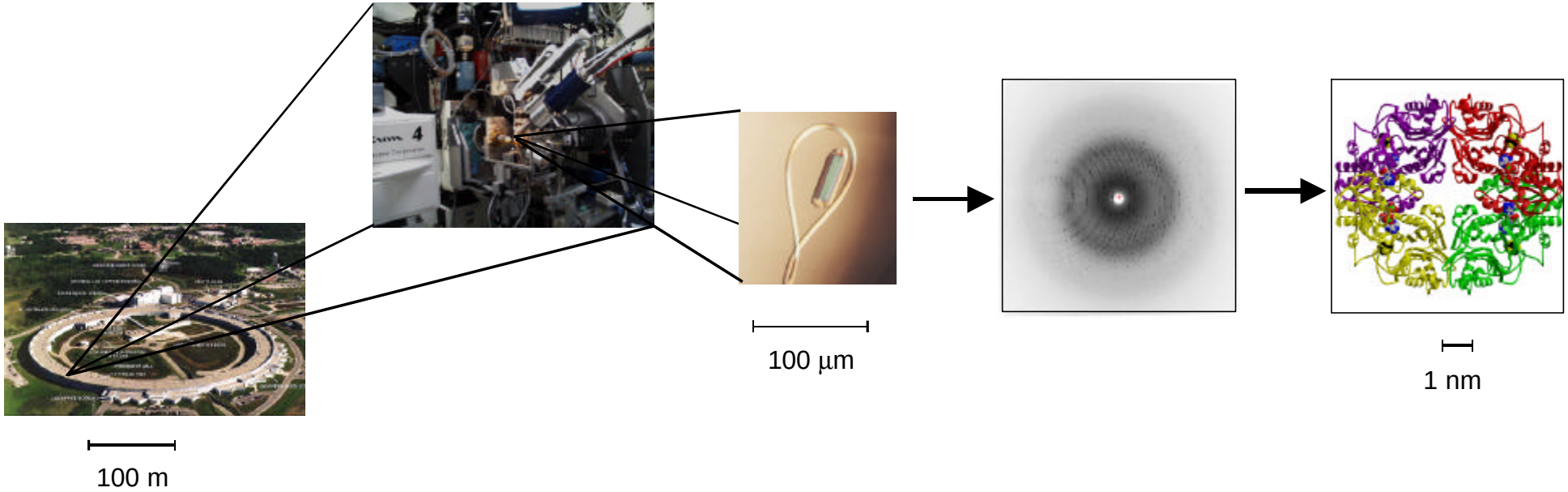
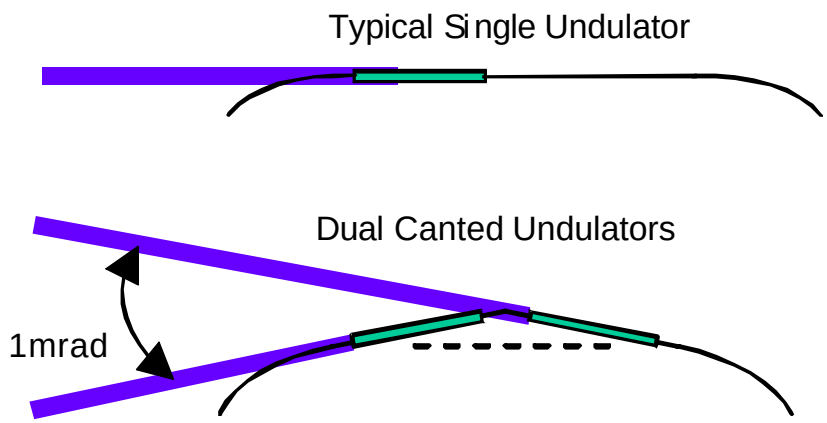
GM/CA CAT

National Institute of General Medical Sciences and National Cancer Institute

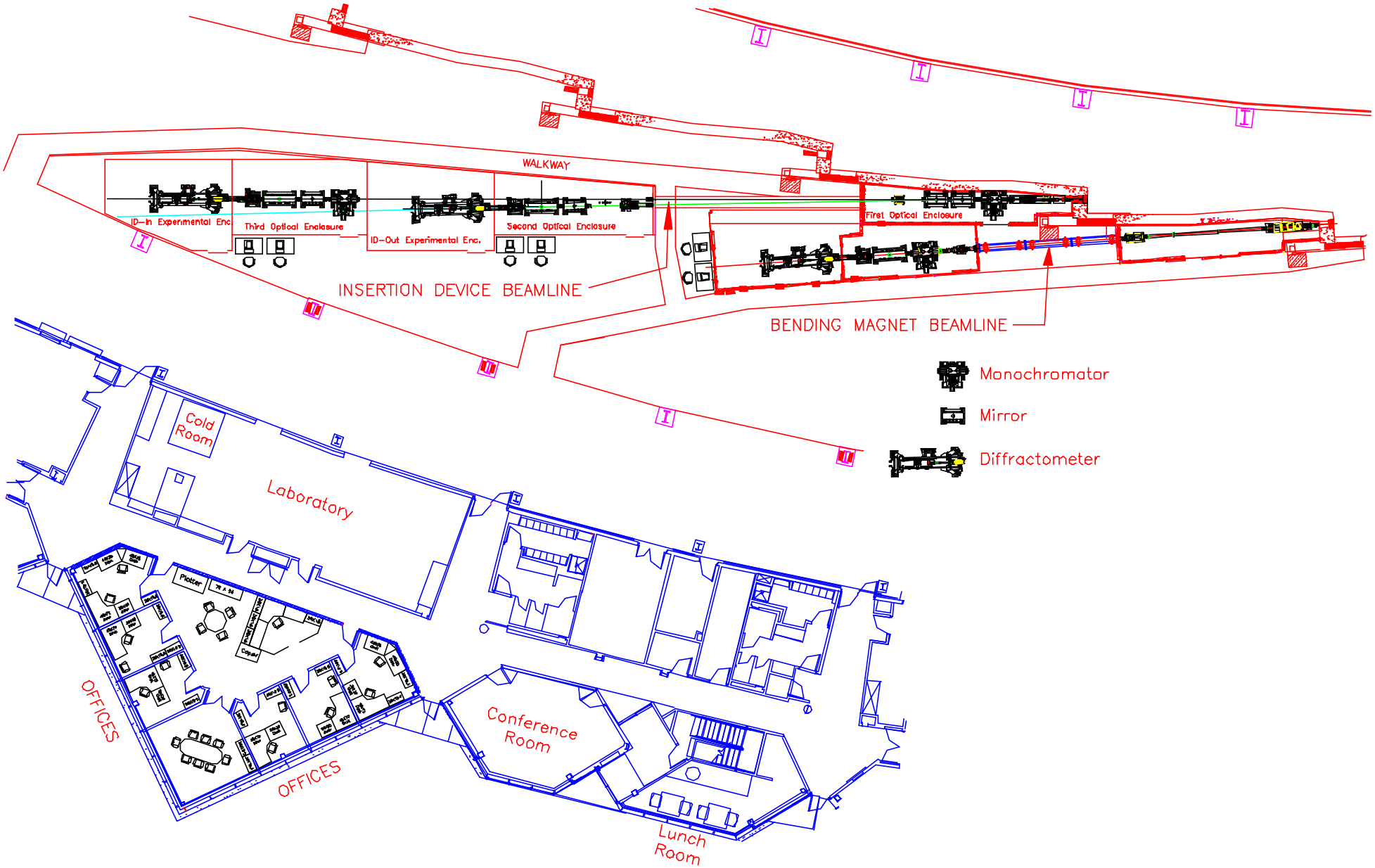
Collaborative Access Team



Dual Undulator Beamlines from One Straight Section



Beamline Characteristics

	ID-out, ID-in		BM	
Energy Range (keV)	3.5 - 20, 3.5 - 35		3.5 - 35	
Energy Resolution (%, for all energies)	<0.02		<0.02	
Flux @ 12 keV (photons/s/100 mA/0.02% BW)	> 1.0 x 10^{13}		> 1.0 x 10^{11}	
Harmonic contamination (%)	<0.01		<0.01	
Rate of energy change (eV/sec) at 6.5 keV	350		350	
at 20 keV	3500		3500	
Beam positional stability for 100 eV change (% of beam size)	<5		<5	
Beam positional stability for 1000 eV change (% of beam size)	<10		<10	
	Vert	Hor	Vert	Hor
Beam size at crystal (microns)	50	200	100	200
Beam divergence at crystal (mrad)	0.05	0.25	0.25	2.0

GM/CA Collaborative Access Team Sector Design