

Current Configuration Information

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This page contains information about the current configuration of EOS-BPM such as motor positions and camera orientations. Please update confluence if any of these change. This page is current as of **March 12th, 2024**

Crystals:

Name	Crystal Type	Location	ND Filters	Camera Orientation	Current Status
EOS1	100um GaP	Toward Walkway (South)	ND4	Left on Image = Toward Beam (North), Right on Image = Away from Beam (South)	Aligned
EOS2	100um GaP	Toward Wall (North)	ND4	Left on Image = Away from Beam (North), Right on Image = Towards the Beam (South), Burn spot near the edge	Aligned

Motors:

Name	???	Purpose	Location	Rack	Notes
E7 EOS Delay	XPS:LI20:MC02:M5	Probe laser delay stage.	IP Table	FKG20-27	Negative adds path
EOS Flipper		Inserts or removes an ND2 Filter from the probe laser path before the PB.	IP Table		
E3 EOS Rotation 1	XPS:LI20:MC04:M8	Rotates the polarizer that cleans up the polarization of the probe before entering the PB.	IP Table	FKG20-26	At -159, PBS entirely transmits
PB4 EOS Assembly Removal	XPS:LI20:MC04:M4	Inserts and removes EOS-BPM from the path of the beam inside the picnic basket.	PB	FKG20-26	Removed = -50 At 6.5 Crystal Spacing, Range is 10.1-12.6 and middle is 11.35 For now I'm saying 12 is the middle at crystal spacing is 8 Bigger value: assembly moves north
PB29 EOS Mirror Adjustment	MOTR:LI20:MC05:S5:CH4:MOTOR	Changes the time delay of EOS2 relative to EOS2 and changes the laser position on EOS2.	PB	???	
PB5 EOS Crystal Spacing	XPS:LI20:MC04:M5	Changes the spacing between the crystals by moving EOS2 towards the wall.	PB	FKG20-26	8 = Closest Together (Nearly Touching) 0 = Furthest Apart
E5 EOS1 Camera Rotation 3	XPS:LI20:MC02:M8	Rotation of the polarizer before the EOS1 camera.	IP Table	FKG20-27	Extinction = 116
E6 EOS2 Camera Rotation 4	XPS:LI20:MC04:M7	Rotation of the polarizer before the EOS2 camera.	IP Table	FKG20-26	Extinction = -32
E1 EOS1 Translation 1	XPS:LI20:MC03:M8	Stage that moves EOS1 forward or back to make sure the crystal is properly imaged onto the camera.	IP Table	FKG20-26	
E2 EOS2 Translation 2	XPS:LI20:MC02:M4	Stage that moves EOS2 forward or back to make sure the crystal is properly imaged onto the camera.	IP Table	FKG20-27	