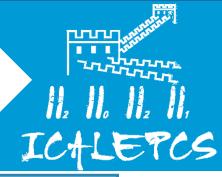
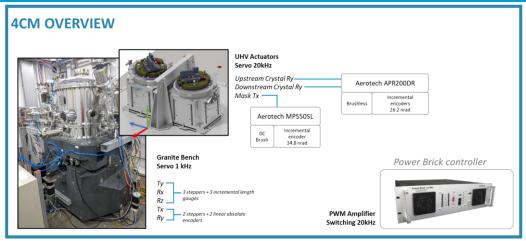
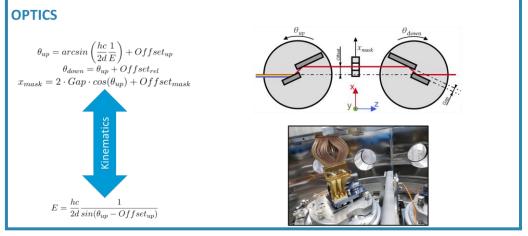
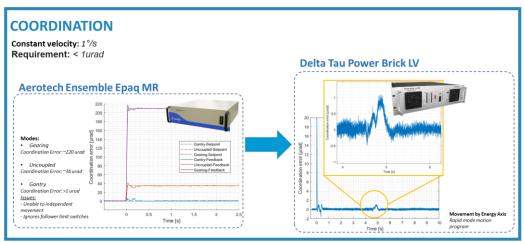
THE CONTROL SYSTEM OF THE FOUR-BOUNCE CRYSTAL MONOCHROMATORS FOR SIRIUS/LNLS BEAMLINES

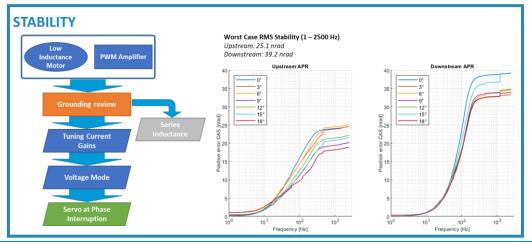
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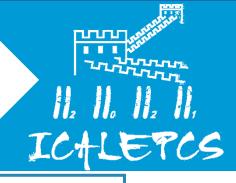


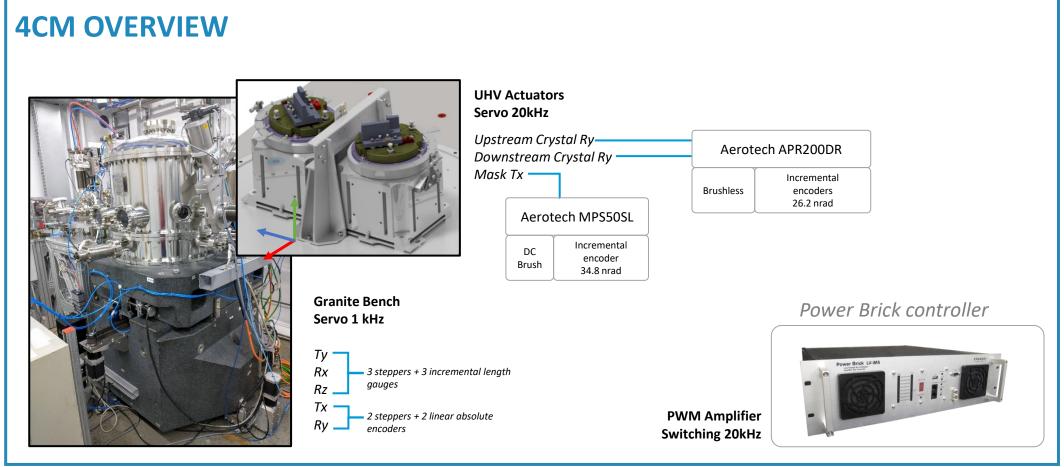




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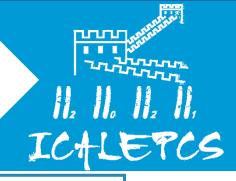






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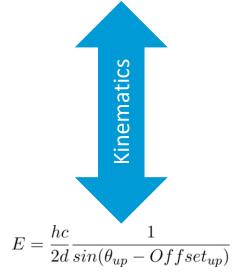


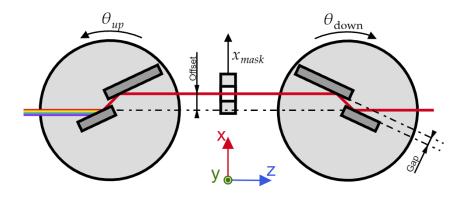
OPTICS

$$\theta_{up} = \arcsin\left(\frac{hc}{2d}\frac{1}{E}\right) + Offset_{up}$$

$$\theta_{down} = \theta_{up} + Offset_{rel}$$

$$x_{mask} = 2 \cdot Gap \cdot \cos(\theta_{up}) + Offset_{mask}$$









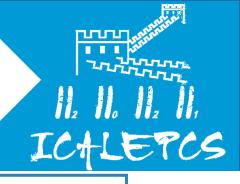






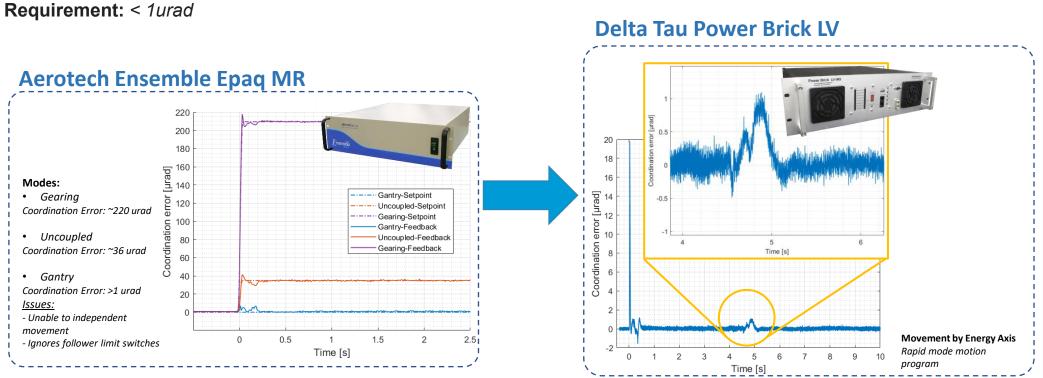
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COORDINATION

Constant velocity: 1°/s











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