

pfRICH timeline updates from Purdue

Sushrut Karmarkar, Andy Jung

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<p>1. End Ring Manufacturing</p> <ul style="list-style-type: none"> • CNC machining in progress • Insert for 120 bolts • Bonding and metrology <p>• Sealing tests (?) – exploring options to shift to SBU (?)</p> <p>2. Sensor plane</p> <ul style="list-style-type: none"> • T-beam prototyping • 2 x 2 sensor plane prototype • Sealing design work – Alex in-person meeting on 28th May at Purdue – finalize design • Sensor plane support-beam manufacturing • Sensor plane assembly and CNC finishing operations • Sensor plane assembly and metrology 	<p>30 April 4 days 2 days 2 days <u>10 May</u> + 2 weeks</p> <p>1 week 1 week - 20 May ~1 week + 1 week for FEA - 10 June ~3 weeks ~2 weeks ~1 week - 30 July</p>	<p>3. Mirror substrate manufacturing</p> <ul style="list-style-type: none"> • Conical lexan co-bonding tests • Samples sent to SBU • Finalize design and start tool manufacturing simulations for outer mirror • Tool machining for outer mirror • Outer mirror prototyping • Co-bonding for outer mirror • Inner mirror (repeat – can be in parallel with 2 week offset/delay start from outer mirror work) 	<p><i>Starting on</i> <i>6th May</i> 2 weeks 1 week 3 weeks for FEA (in parallel) - 10 June ~2 weeks ~1 week ~1 week - 7 July outer mirrors - 21 July inner mirrors</p>
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4. Aerogel plane manufacturing	???
• Design	1 week
• Tool manufacturing	1 week
• Part manufacturing + CNC	1 week
• Bonding and metrology	1 weeks
5. Global integration design with Alex and prototyping	
• CAD concept – summer 2024	
• Prototyping if needed late Fall 2024	

