

PID group tasks and manpower needs

Task	Manpower	FTE
1. FDIRC		
Analysis of data from the prototype in CRT	postdoc/physicist	6 months
MC study of the setup in CRT	Physicist/postdoc	6 months
BLAB2 chip firmware study in CRT	Student (U. of Hawaii)	1-2 months
CRT setup modifications (fixing dead channels, etc.)	physicist	2-3 weeks
BLAB2 chip mods and upgrade to BLAB3	Physicist (U. of Hawaii)	3 months
Restart the scanning setup to study the MaPMT photon detectors	Physicist/Student/postdoc	2-6 months
Look at HERA-B MaPMT aging	Student (Ljubljana Univ.)	6 months
2. Forward TOF		
Prepare electronics for TOF test in CRT	student	2-3 weeks
Prepare TOF detectors for the CRT test	physicist	1 week
TARGET chip data measurement & analysis	physicist	2 months
MCP-PMT aging tests	physicist	3-6 months
Timing tests in the magnet at 16 kG	physicist	1-2 weeks
Define geometry of the Forward TOF detector	physicist	2-3 weeks
Look into alternative schemes for the Forward TOF	physicist	1-2 weeks
MC study of Forward TOF system	physicist	2 months
Prepare the final electronics concept	Physicist/engineer	1-2 months
Prepare final mechanical design	Physicist/engineer	1-2 months
Cost estimate	Physicist/engineer	1-2 weeks

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3. BaBar bar box study		
Analysis of the glue joints using BaBar di-muon data	physicist	2-3 months
Prepare optical setup to study bars after bar boxes removed from BaBar	Physicist	2-3 weeks
Prepare a new reference bar to check the original transparency of full bar	Physicist	1-2 weeks
4. Forward Aerogel RICH		
Study aging of SiPMT	physicist	3-6 months
MC study of Forward Aerogel RICH system	physicist	3-6 months
Prepare a final electronics concept	Physicist/engineer	1-2 months
Prepare a final mechanical design	Physicist/engineer	1-2 months
Cost estimate	Physicist/engineer	1-2 weeks
5. Barrel DIRC optics study		
Develop/improve the new tools (MC, ray tracing)	physicist	2-3 months
Decide on optics with MC	physicist	6 months
Decide on optics with a ray tracing program	physicist	1-2 months
Prepare sketches for an engineer	physicist	1-2 weeks

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6. Engineering studies		
Oil vs. water in the new SOB	Engineer/physicist	1-2 weeks
Engineering drawings for a new SOB	engineer	2-3 weeks
Engineering studies of the Forward TOF	engineer	1-2 weeks
Engineering studies of the Forward Aerogel RICH	engineer	1-2 weeks
Calculations	engineer	1-2 weeks
Engineering studies of the Forward TOF	engineer	1-2 weeks
7. Other studies		
dE/dx performance study in the Forward region	physicist	6 weeks