Project | HKR-Injector-Upgrade / Uni-BPM-PHAS Project Lead | W. Kaufmann



Status Date 07.07.2022

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Project Description		Subprojects / Tasks			
This pr 2023 75 (DAQ modules) 4 PM Goal is to allow for digital control of both, BPMs and phase probes using FESA. Project will be executed in separate steps: 1. production of new SW for BPM display and phase probe selection, 2. realization of new data acquisition for demodulated signals and SW adaptation. Requirement specification for PHAS exists, prototype SW for BPM GUI available from K. Fuchsberger (new contract required).			w GUI and FESA software for BPM readout (existing electronics) • Purchase of commercial DAQ components • Realization of connector box • Installation of DAQ hardware in LSB • Implement FESA software and GUI for new BPM readout • Perform beam tests • Commissioning of the full system		
Project Goals			Ressource Profile		
 Production of new GUI using Device Access for existing BPM data acquisition Implementation of new PHAS control software Production of new redout for demodulated signals (COTS electronics, FESA) Be prepared for the move to FCC 		Year	Estimated costs [k€]	Personnel [person months]	
		2022	30 (software work) 35 (Oszi, 8Ch)	2 PM für PHAS, 1 PM für BPM	
		2023	75 (DAQ modules)	4 PM	
		2024	10 (cabling, electronics)	6 PM	
		2025			
		2026			
		Sum	Ca. 140.000 Euro		
Major Milestones			Risks, Boundary Conditions and Comments		
Q3/2022	Start software work for BPM	readout and PHAS	Major Risks: - Low priority (compared to FAIR activities), delay Concerned departmen - BEA - ??		Concerned departments:
Q1/2023	Start procurement				
Q2/2024	Procurement of hardware co	mpleted			
Q4/2024	Commissioning with beam		Boundary Condition: - Must be prepared before move of HKR to FCC		Comments:
GSI Hel	Imholtzzentrum für Schwerionenf	orschung GmbH			