

Lab / test beam / prototyping

	M	A	M	J	J	A	S	O	N	D	Comments
Aerogel characterization @ Temple	x	x	x	x							Transmission, refractive index, other
HRPPD characterization @ BNL		x	x	x	x	x					Surface scans: QE, PDE, gain, timing
HRPPD B-field study @ Argonne					?						eRD110 [defined by HRPPD delivery time]
HRPPD ageing study @ INFN Trieste							?	?			eRD110 [defined by HRPPD delivery time]

	M	A	M	J	J	A	S	O	N	D	Comments
Other MCP-PMT evaluation @ Glasgow		x	x	x	x	x					eRD110
Mirrors 1 st article @ Purdue & Stony Brook	x	x	x	x	x						Funded PED proposals
Vessel 1 st article @ Purdue & Stony Brook	x	x	x	x	x						Funded PED proposals
ASIC FE V0 work (I2NP3/Debrecen/BNL/ORNL)	x	x	x	x							A new PED proposal in works

Reconstruction software & simulations

	M	A	M	J	J	A	S	O	N	D	Comments
Standalone code refinement	x	x	x	.	.	.	.	.	.	.	ML add-on, timing code update, etc
Aerogel / HRPPD / mirror parameterizations			x	x							Once lab test data is available
Geometry porting to dd4hep											Pretty much completed
Optics configuration porting to EICrecon	.	.	?	?	?	.	.	.	.	.	Low priority (not needed for a pre-TDR)
IRT 2.0 interface to EICrecon	.	.	?	?	?	.	.	.	.	.	Low priority (not needed for a pre-TDR)
pfRICH geometry update & Co	x	x	.	.							Minor changes required; B field, etc
LUTs for ePIC simulation campaigns	x	x	x	x	.	.	.	.			Up until a pre-TDR input is frozen
Basic single-track performance confirmation	x	x	x	x	x	.	.	.	.		Follow reconstruction code updates
Background studies			?	?							TBD
Multi-track DIS event performance studies	.	.	.	.	.						Reconstruction code update required
pfRICH PID SIDIS money plots				?	?						Repeat March 2023 studies
Tracking resolution effects		x	x	x						x	

Engineering design

	M	A	M	J	J	A	S	O	N	D	Comments
Outer vessel shell											Completed
HRPPD (rear) sensor plate		x	x								Assuming PED completion by August 1 st
Front vessel plate & aerogel support		x	x	x							ditto
Inner (beam pipe) vessel wall			x	x							ditto
Mirrors	x	x	x								ditto
Installation concept; support structure	.	x	x	.	.	.	.	.	.		TBC; an ongoing effort
Gas system	x								x		Preliminary design exists
HV system		x	x	x					x		ditto
LV system									x		ditto
Cooling system									x		ditto
Front end electronics											2024 focus: analog FE evaluation
DAQ interface											Once RDO for EICROC is conceptualized
Slow Control											TBD