

# US HFCC Detector Organizational Area

Web site: <https://us-fcc.web.cern.ch/detector/>

Indico: <https://indico.global/category/1546/>

Organizers: Christoph Paus (MIT), Charlie Young (SLAC)

# Agenda for today

## Update on funding and budget exercise

- Review requests
- Finding additional funding to help FCC-ee

## Events relevant to the detectors

- 4th US FCC Workshop, September 8-11, 2026 at SLAC
- BNL/CERN school for future colliders
- Web pages

## Roundtable discussion

# Timeline for FY2027

## Funding requests

- 2026: \$2.7M requested (mostly tracker) awarded \$0.5M
- 2027: target ~\$1.5M – concrete unique US projects work best: present \$841
- Good news we have a ‘reasonable’ number ...



# Our present status

Detector group	Description	Institute	Amount [k\$]	Totals
AIM	Bi-level detector optimization framework	Princeton	66	
	Detector optimization Challenge + agents	?	20	
				86
Calorimeter	DR Simulations workshop/tutorials	tbd	35	
	Simulation of thermal management of cold electronics	BNL	30	
	2027 DR test beam – ECAL	FNAL	40	
	2027 DR test beam – HCAL	TTU	45	
	Simulation studies for Si-W luminomitor	tbd	20	
	LAr turbine	UAZ	100	
	Digital ECAL with MAPS	tbd	35	
				305
TDAQ	<i>no request so far</i>		0	
				0
Muons	Engineer and technician support	U Mich	25.7	
	Materials and supplies	U Mich	14	
	Indirect cost	U Mich	10.3	
	PI / Scientist support	J Lab	17	
	Engineering support	J Lab	24	
	Material and supplies	J Lab	5.5	
	Domestic travel	J Lab	3.5	
				100
Tracker	MAPS development	FNAL, SLAC	250	
	Straw tubes, technician	U Mich	51.6	
	Straw tubes, junior electrical engineer	U Mich	23.7	
	Straw tubes, materials and machine shop (prototype)	U Mich	24.7	
				350
<b>TOTAL</b>				<b>841</b>

## From HFCC Steering meeting yesterday

- Need to have new ideas about funding
- Another round of ‘requests’ but with categorization of what source
- Sources are for now
  - U.S. FCC from DOE (us)
  - Generic R&D funds
  - AI/ML funds

# 4<sup>th</sup> US FCC Workshop

Come to SLAC September 8-11, 2026

- US FCC Workshop is now 4 days long
- There are substantial detector contributions, the agenda is evolving please share your thoughts, help with speakers etc.

	Tuesday	Wed	Thursday	Friday		
8:30-10:00		1. FCC project overview MB 2. FCC PED overview 3. FCC accelerator progress	Overview of L2 PED aspirations - open to contributions	a. Detector design and systematic uncertainties c. plenary talk from physics b. MDI/detector interface		PED
10:00-10:30	tutorials?		Coffee break			Acc
10:30-12		4. US engagement in FCC 5. US FCC Acc efforts overview 6. US FCC PED efforts overview 7. AI & Genesis : impact on future colliders	report from DRDs: a couple of representatives that can cover various topics	d Execution of big projects e f		
Lunch			Lunch			
13:30-15:30	Review of L2 PED progress	Instrumentation/Reco/Tagging/Simulation AI Valentina+Loukas+Patrick	11. CEPC det lessons calo/tracking 10. MAPS effort in the US			
15:30-16:00	Review of L2 Acc progress		13. PID @ EIC 14. Higgs exp uncertainties & det constraints	tutorials?		
16:00-18:00	Report from RD/CPAD Charlie	Physics new ideas/wish list (90 min) Valentina+Loukas+Patrick	Panel Discussion 1	Panel Discussion 2		
	reception	conference dinner				

# Web pages: <https://us-fcc.web.cern.ch/detector>

Please start filling the content

- Add your L3s
- Add some content that does not go out of date right away ;-)