

# US HFCC: AI, Integrated Detector Concepts, & Microelectronics

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HFCC Detector Workshop: AIM Introduction

[19 Dec 2024](#)

# Goals for this Session

## 1. Technical input to European Strategy update (EPPSU)

- a. Primary challenges
- b. US capabilities
- c. Opportunities for US contribution
- d. US institutional interests

## 2. High priority near-term funding

### a. *Already submitted FY25 request:*

- i. Detector optimization challenge:
  1. Standardized set of physics benchmarks and detector sim to engage community in optimization strategies and/or new designs
  2. **Will be discussed in 14:00 parallel with TDAQ + S&C**
- ii. AI-in-ASIC engineering FTE for concepts/studies/designs

**→ Opportunity for discussion/input after L3 overviews**