

- **October 16, 2023 Kickoff Meeting**
 - Request 1 or 2 page abstracts on collaboration and WP's
 - <https://indico.slac.stanford.edu/event/8288/>
 - ...Blue-sky Detector R&D not project oriented
 - following PRDs identified in the BRN for HEP Instrumentation and at Snowmass
 - Ideas...
- **Nov 7 -10 CPAD 23 Meeting at SLAC <https://indico.slac.stanford.edu/event/8288/>**
 - RDC4 #1 Circuits and Architectures for 4D Tracking and Calorimetry
 - RDC3,4,11 #1 SS Tracking, Electronics & ASICS, FAST Timing
 - RDC4 #2 Big Data Management
 - RDC4 #3 Cryogenic and Deep Cryogenics
 - RDC3 #4 Methodologies, Tools, IC blocks, SoCs and Workforce Development
 - RDC3,4,11 #1 SS Tracking, Electronics & ASICS, FAST Timing
 - RDC1, 4 Noble Element Detectors & Electronics & ASICS
- **February 6, 2024**
 - list the RDC4 WP proposals submitted so far
 - 4 short presentations from the authors of WP proposals that appear to fit within a topic of "Detector Mounted Readout ASICs and Support Blocks"
 - Development of next-gen Monolithic Active Pixel Sensors [Lorenzo Rota SLAC](#)
 - Readout ASICs and electronics for 4D Tracking [Bojan Markovic SLAC](#)
 - On Chip On-detector Data processing [Alexander Paramonov ANL](#)
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- **March 12 2024**
 - <https://indico.fnal.gov/event/63729/>
 - Work underway and New Ideas for Blue Sky Projects at LBNL [Timon Heim](#)
 - Introduction to the state of the WP submissions ~ 10 min
 - Presentations (~ 5-10min + Questions and short discussion) 20-30min
- **April 11 2024**
 - <https://indico.fnal.gov/event/64221/>
 - eFPGA's for Future HEP (& NP) Detector systems [Larry Ruckman, SLAC](#)
 - Work underway and New Ideas for Blue Sky Projects at FNAL [Davide Braga FNAL](#)
- **May 8, 2024**
 - <https://indico.fnal.gov/event/64571/>
- Brookhaven National Lab Blue Sky Activities and Ideas of Interest 25m [Grzegorz Deptuch BNL](#)
- Planning for the September FOA 25m
- Choosing Work Package ideas with strong support.
 - * Already well formed missions for WP
 - * Cross RDC possibilities?
 - * Withing the proposal what might deserve first funding considering what is currently known about FY25 funding

- Topic Area #1: Circuits and Architectures for 4D Tracking and Calorimetry
 - Picosecond Timing Circuits
 - Monolithic Readouts
 - Models and Techniques for extreme radiation
- Topic Area #2: Big Data Management
 - Energy efficient architectures and circuits

- On-Chip Computing
- On-Chip AI/ML
- Fast Interconnections and I/Os
- Advanced Integration (3D, Photonics, Wireless)
- Topic Area #3: Cryogenic and Deep Cryogenics
 - 4K Circuits and Architectures for QIS
 - Circuits and Architectures for Noble Liquid Detectors
 - Cryogenic Models and Libraries
- Topic Area #4: Methodologies, Tools, and Workforce Development
 - Design for Verification methodologies
 - CAD Tools and Foundries shared joint access
 - Shared libraries and access model
 - Domain knowledge transfer and training