LDRD / AI for NP

2020.01.14

LDRD
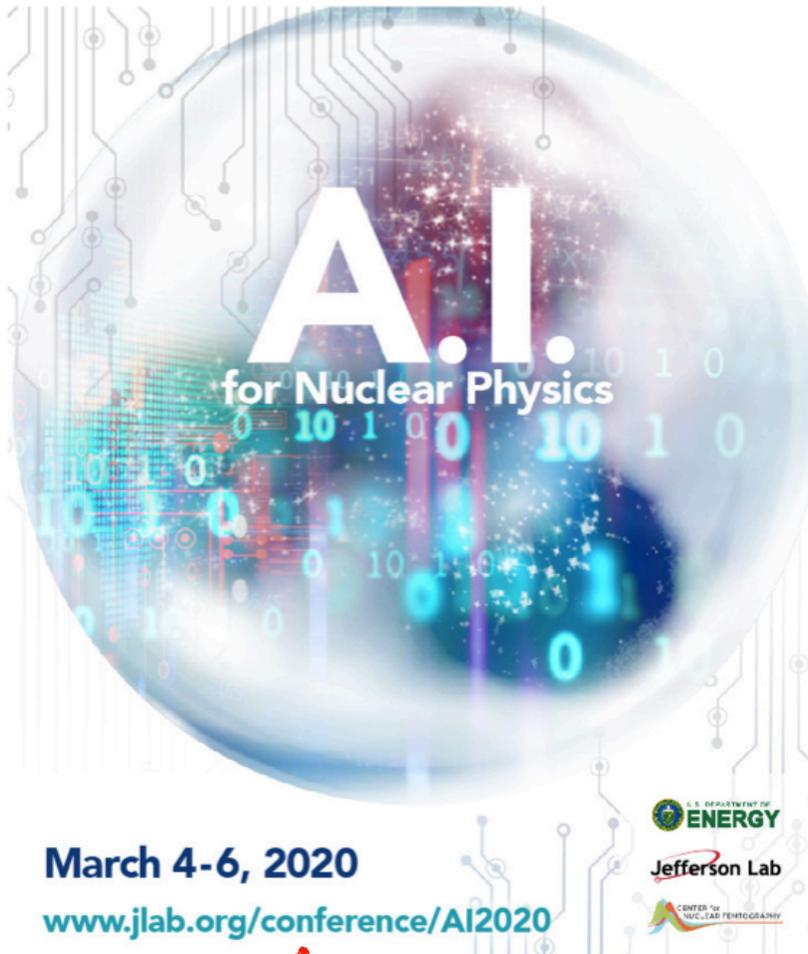
- **Two tracks:**
  - Early career
  - Area initiatives

- **Area initiatives:**(Physical Sciences Area)

  1. new scientific opportunities in particle physics and cosmology

  2. new opportunities in nuclear science

  3. advanced accelerator systems for colliders and other applications including high power lasers

  4. novel technical concepts and capabilities: especially microelectronics, semiconductor detectors, "Quantum Information Science" technology, superconducting magnets

  5. novel computing capabilities applied to particle physics, cosmology, nuclear science and accelerators

  6. new opportunities in fusion energy sciences.

LDRD - Key Dates

- **Now - 2/14:** PIs discuss ideas with Program Heads; schedule appointments with Brad Jocobs to discuss budget

- **2/20** (12pm Wang Hall 3101)
  - 5-slide, 10-min idea presentations
  - initial feedback from Division

- **3/11** (9am 50A-5132): LDRD proposal presentations

- **3/21**: NSD deadline for proposal submission to online system

- **3/23** (Monday): Lab locks the submission website

A.I. for Nuclear Physics

Jefferson Lab
Thomas Jefferson National Accelerator Facility

A.I.
for Nuclear Physics

March 4-6, 2020
www.jlab.org/conference/AI2020

Registration deadline: Feb 19, 2020

- DOE NP instigated an A.I. workshop for NP. Maybe an FOA on A.I. this year.

- Try to identify **unique NP opportunities** in A.I.

- **March 4 to 6** at **JLab**

- **Rough agenda: (NEED input now)**

  - **3/4:** Plenaries to *set the stage*; breakouts

  - **3/5:** Plenaries to *educate and inspire* (science outcome inspired by AI); breakouts

  - **3/6 (morning):** Breakout summaries; summary plenary

  - **3/6 (afternoon):** convener writing session.