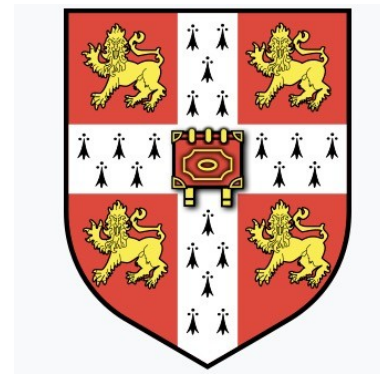


INTENSE: particle physics experiments at the intensity frontier. A cooperative Europe – United States effort.



# The University of Cambridge

MidTerm Review Meeting, June 24, 2022

**Melissa Uchida**



UNIVERSITY OF  
CAMBRIDGE

Department of Physics  
The Cavendish Laboratory



# The University of Cambridge



- Founded in 1209.
- A collegiate University
  - with 31 colleges.
- Rated 2nd best university in the world, and the best in Europe, according the QS World University Rankings.
- 121 Nobel laureates, 11 Fields Medalists, and 7 Turing Award winners, and more...

# Physics at Cambridge

- The Cavendish Laboratory was founded in 1874.
- The core of the Laboratory's programme has been, and continues to be, experimental physics, supported by excellence in theory.
- Diverse research: Astrophysics, Atomic, Mesoscopic and Optical Physics, Biological and Soft Systems, **High Energy Physics**, NanoPhotonics, Optoelectronics, Microelectronics, Molecular Engineering, Quantum Matter, Quantum Sensors, Scientific Computing, Semiconductor Physics, Surfaces, Microstructure and Fracture, Theory of Condensed Matter and Thin Film Magnetism.



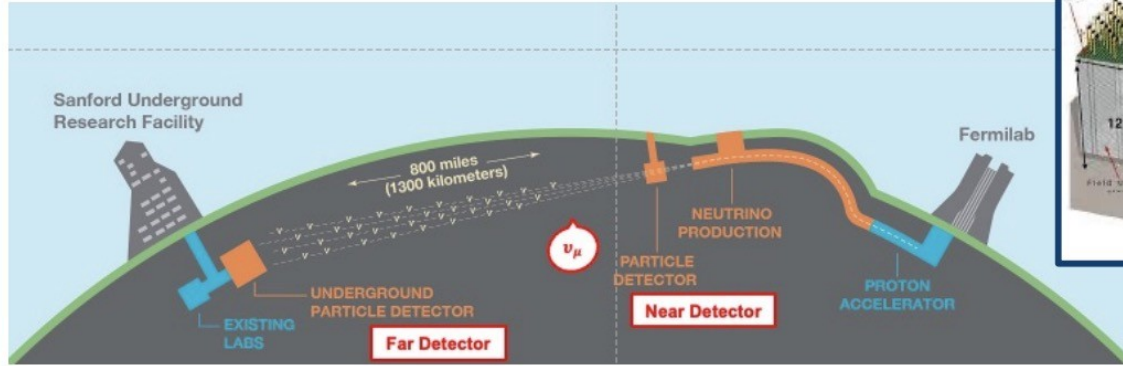
# My Research and Group

- The team:
  - 1 associate prof (M A Uchida)
  - 2 postdocs
  - 6 PhD students
- Working on:
  - DUNE
    - Long baseline Neutrino physics
  - MicroBooNE
    - Short baseline Neutrino Physics
  - AION
    - Mid-range gravitational waves detector
  - Muon Collider

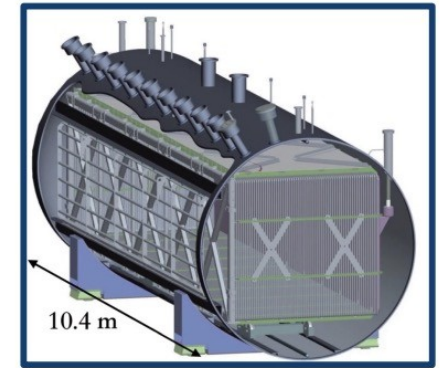
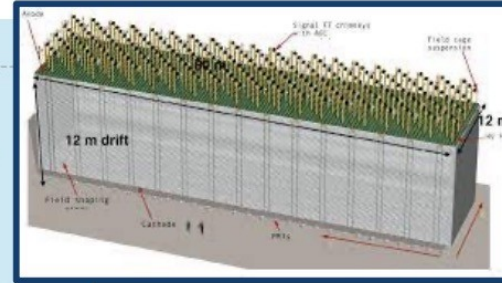


# Intense at Cambridge

## Deep Underground Neutrino Experiment (DUNE) at Fermilab



## MicroBooNE at Fermilab



## Early Stage Researcher: Natsumi Taniuchi

