

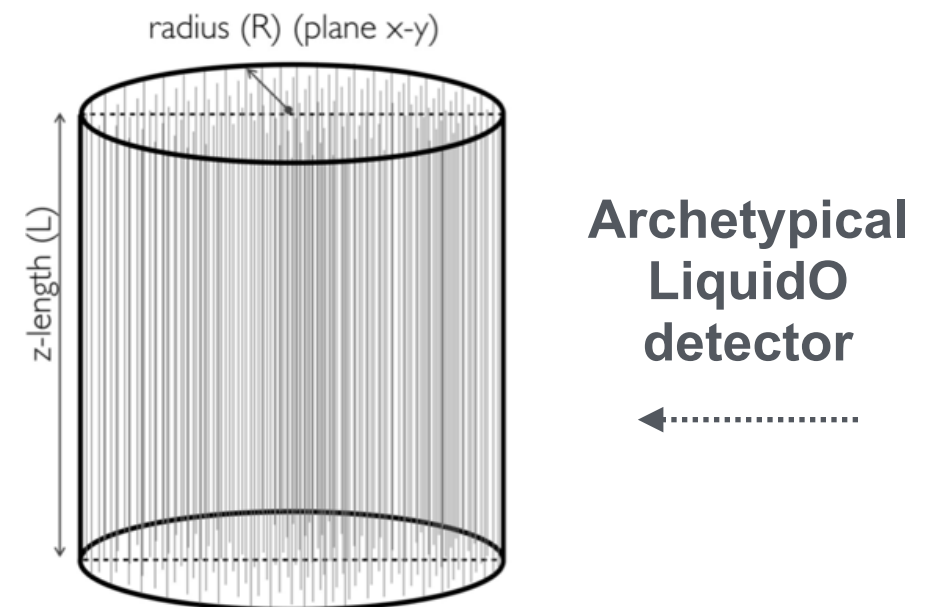
LiquidO: A new approach

- Liquid Scintillator (LS) detectors have been a workhorse in neutrino physics
 - Conventional strategy: propagate light through the scintillator to surrounding photosensors
- A new proposal called LiquidO is a departure with **two main features**:

1) Use an opaque scintillator

Main purpose: **stochastically confine light near its creation point**, to preserve the precious topological information of particle interactions

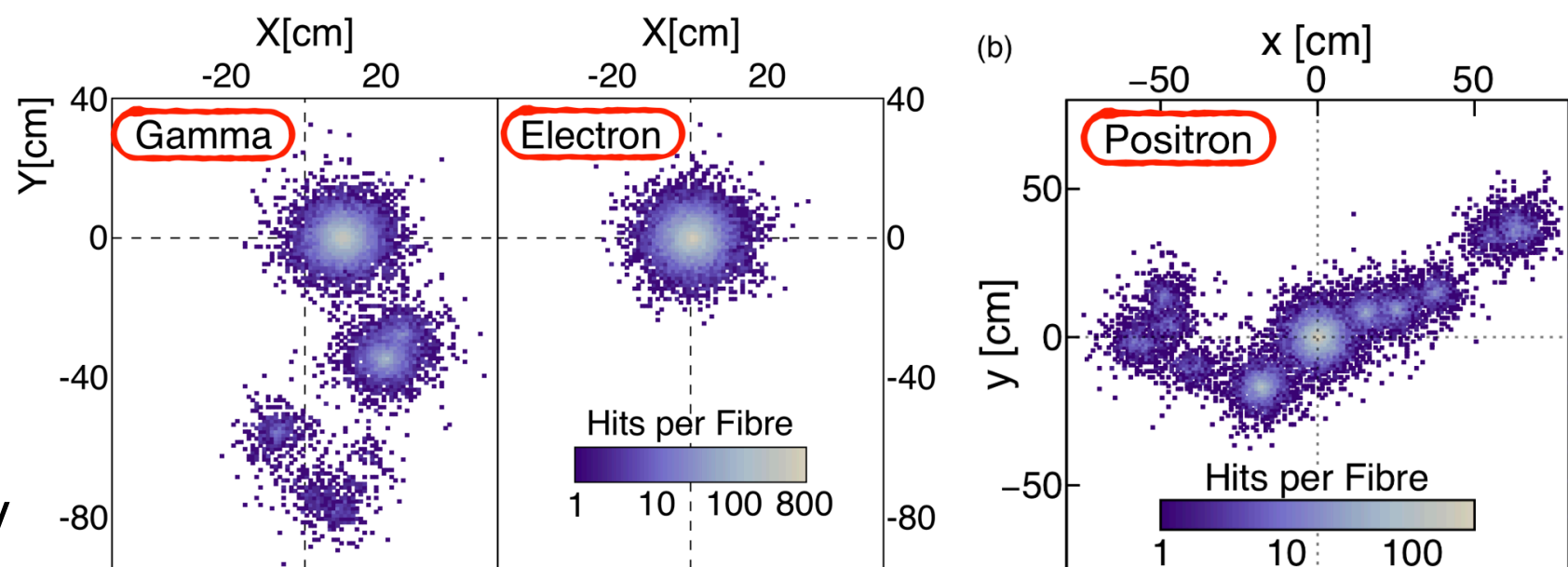
2) Collect light with a dense fiber array



- Unprecedented capabilities:

- Imaging down to the MeV scale
- Affinity for doping well beyond current limits

- Potential application in many areas of neutrino physics



(Gamma and Electron are 2 MeV, positron is 1 MeV)