

# Outputs of the Fundamental Physics Discussion

- All UCN experiments are statistics limited, HighNESS should explore if high densities in the range of  $6e4/cc$  can be delivered. Such an increase in density will enable science projects that are not otherwise possible.
- The community is energized to address this urgently, and expects that it can become a critical resource in the near future.
- The lower moderator is an exciting opportunity: large area, access, and flexibility
- Transporting a large area and solid angle to a position with low background and ready access is important for science projects, and should be investigated in detail as a platform for UCN/VCN facilities.
- High priority should be given to well-motivated science cases with impact beyond the immediate field of neutron physics. The EDM for UCN, and  $Nnbar$  for VCN stand out for today's community as the main candidates.
- There was a wide-ranging and interesting discussion addressing how to move forward as a community for fundamental physics in general.

