



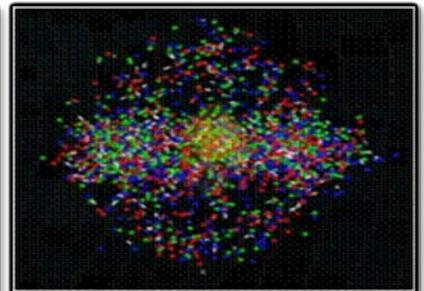
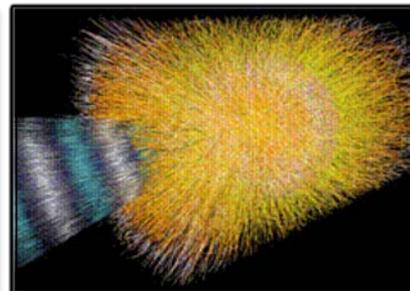
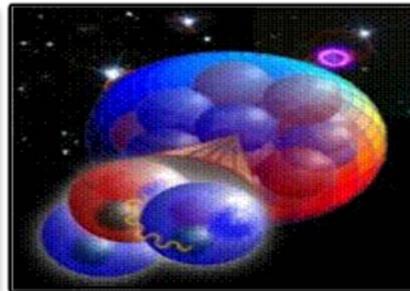
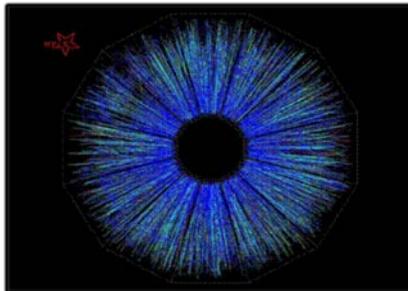
U.S. DEPARTMENT OF
ENERGY

Office of
Science

DOE/NSF Charges to NSAC

NSAC Meeting
April 3, 2015

Dr. Timothy J. Hallman
Associate Director for Nuclear Physics
DOE Office of Science



New Charge on Neutrino-less Double Beta Decay

Consistent with these recommendations, the NSAC Subcommittee on Neutrinoless Double Beta Decay is requested, in the context of ongoing and planned U.S. efforts as well as international competitiveness, to consider the following:

- Assess the status of ongoing R&D for next-generation NLDBD candidate technology demonstrations for a possible future ton-scale NLDBD experiment.
- For each candidate technology demonstration, identify the major remaining R&D tasks needed ONLY to demonstrate down select criteria, including the sensitivity goals, outlined in the NSAC Report of May 2014. R&D needs for candidate technology demonstrations should be sufficiently documented beyond assertion to allow critical examination both by the panel and by future assessments.
- Identify the time durations needed to accomplish these activities and the corresponding estimated resources, as reported by the candidate technology demonstration groups.



New Charge on Mo99

Subsequently, we request that NSAC reconvene the Subcommittee to provide an annual assessment of the following charge elements:

- What is the current status of implementing the goals of the NNSA-MMM Mo-99 Program? What progress has been made since the initial NSAC assessment?
- Is the strategy for continuing to implement the NNSA goals complete and feasible, within an international context?
- Are risks identified in implementing those goals being appropriately managed?
- Has the NNSA-MMM Program addressed concerns and/or recommendations articulated in the 2014 NSAC assessment of the Mo-99 Program appropriately and adequately?
- What steps should be taken to further improve NNSA program effectiveness in establishing a domestic supply of Mo-99?