November 27, 2012

Dear Members of the NSAC Subcommittee on the Implementation of the Long Range Plan:

We the undersigned 824 members of the FRIB Users Organization are writing to express the importance of the timely completion of the FRIB project. FRIB is a central component of our future research plans and will enable forefront research and discovery into the nature of atomic nuclei, the origin of elements in the cosmos, tests of nature's fundamental laws, and societal applications of isotopes. The exciting science case for FRIB and the other rationale for its completion are summarized in the document "FRIB: Opening New Frontiers in Nuclear Science" that we submitted to you in September.

The field of nuclear science now encompasses a broad and exciting scientific landscape. Within this landscape, the study of nuclei remains a vital component of the field. Major discoveries are on the horizon into the interactions that govern the properties of nuclei and in the understanding of nuclear processes that drive astrophysical environments. It is likely that other unexpected discoveries will accompany the vast new view of nuclear systems with extreme neutron-to-proton ratios made available by the next generation of rare isotope facilities.

The 2007 Long Range Plan outlined the steps needed to achieve a vibrant future for nuclear physics in the U.S. The plan envisions a program where QCD phenomena, nuclei, and fundamental symmetries are studied. It also describes the set of capabilities required to achieve this vision. Specifically, the LRP recognized that a new capability, FRIB, was needed in the area of nuclear structure and nuclear astrophysics and called this need "most acute". FRIB is the second priority of the 2007 Long Range Plan (the first for new construction) and the first recommendation of the 2012 National Research Council study of Nuclear Physics. The scientific case for FRIB is now even stronger than in 2007 and the need more acute.

Our user community is strongly committed to building an exciting future research program at FRIB. This will be a unique facility with powerful capabilities to produce a wide range of rare isotopes as beams at a variety of energies ranging from thermal to reaccelerated to fast. It will not only facilitate advances in the structure of nuclei and their cosmic origin, but also in the fields of energy, medical diagnostics and therapy, materials science, and homeland security. We strongly urge you to articulate the nuclear science community's commitment and vision of the 2007 Long Range Plan in your report and include nuclear structure and nuclear astrophysics as a fundamental component of the U.S. nuclear science program by making FRIB a priority.

Sincerely,
The following undersigned Members of the FRIB Users Organization*

*We are signing of our own accord and not on behalf of the institutions for which we are employed.

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