

Collaboration Questionnaire -- Instrumentation for FRIB

To get firmer ideas about instrument packages that will be proposed at the FRIB Workshop, Feb, 20-22, 2010, we request each collaboration to fill in the following questionnaire. These should be e-mailed to Kim Lister (Lister@anl.gov) and copied to Brad Sherrill at (Sherrill@frib.msu.edu) and Rick Casten (Rick@riviera.physics.yale.edu) *no later* than Feb 12, 2010. The recommended **length** is **2 pages**, plus two additional figures. One figure should present the instrument and the other should indicate its location, size, etc on the floor at FRIB by using the [floorplan](#) template.

- 1) What is the primary physics motivation and experimental capability of the proposed instrument and why is this important for FRIB science?

N/A as a proposed instrument. But for those experimental apparatus that require targets their continued availability would be very important.

- 2) What are the unique capabilities of this device that are not available in existing equipment? Is this instrument stand alone or is it to be used (solely or partially) in conjunction with other instruments. Could it be used at NSCL or other laboratories before FRIB?

N/A as a proposed instrument. However, targets could in principle be made at other locations.

- 3) Describe the instrument in some detail – how does it meet the scientific requirements and what are the (estimated) performance specifications? Be brief but as detailed as you can. Is the design fixed or are multiple options still being discussed and encouraged?

N/A

- 4) What is the current stage of development of your project ?

We hope to submit a proposal for additional funding and upgrades to the current target preparation facilities.

- 5) What is the approximate cost of the project: discuss possible sources of funding.

ANL/DOE funding proposal (\$300k equipment + 1 FTE)

- 6) Please provide a brief list of collaborators and institutions. Spokesperson(s) provide contact info.

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- 7) Please can you outline how your collaboration has been developing your project and how you are growing your collaboration (How many meetings? Participants?, Circular mailings? Have you a web-site?)

Nothing done as yet. We hope to solicit support and comments from the FRIB User community during this Workshop.

- 8) Did you consider alternative designs? What alternatives were considered? How did you arrive at a final design?

N/A

- 9) What existing equipment exists in the US Community that has similar goals and characteristics, even if inferior in performance.

There is work ongoing at several key institutions; MSU, ANL, Oregon State, Notre Dame, FSU, ORNL, etc.