

The FDS Initiator (FDS_i)

The FRIB Decay Station (FDS) — an efficient, granular, and modular multi-detector system designed under a common infrastructure — will be staged, beginning with equipment from existing arrays and subsequently upgraded, increasing the energy resolution, granularity, and combined efficiencies along the way; this will increase the scientific output and extend the scientific reach towards the drip lines.

The FDS Initiator (FDS_i) is the initial stage of the FDS that will be ready for Day One FRIB, and the FDS Initiator Group is the body of contributors responsible for establishing the FDS_i, which will occur before official FDS funding, in accord with the vision outlined in the FDS White Paper. The FDS Initiator Group will work towards the FDS_i in coordination with the FDS Users Executive Committee (FDS UEC) and FRIB, ultimately providing a means for FRIB users to conduct world-class decay spectroscopy experiments with the best equipment possible. This document represents a joint agreement between the FDS Initiator Group and the FDS UEC, which represents the wider community, and it outlines the opportunities, procedures, and conditions for using the FDS_i. The terms within this document may be renegotiated only once per year with suggestions for possible changes presented at the one of the annual nuclear physics community meetings (e.g., LECM or APS DNP).

- Prior to each PAC cycle, the FDS UEC, in coordination with the FDS Initiator Group, will provide a list of available detector systems for decay spectroscopy studies, points-of-contact for each detector system, and nominal array configurations to FRIB and the user community. Users interested in other configurations or additions should communicate their needs with the FDS UEC prior to a PAC cycle.
- Anyone can submit a FDS_i proposal, regardless of country or affiliation. However, PIs should coordinate their proposals with the detector points-of-contact for technical review.
- Primary authorship and data sharing are to be negotiated and resolved amongst the proposal PIs and detector points-of-contact. All FDS Initiator Group contributors are permitted to participate in all FDS_i experiments if they desire. All people who contribute to a proposal, detector setup, experiment, analysis, or manuscript are to be included as authors. FRIB data management and authorship policies must be strictly followed for continued use of the FDS_i. The experimental PI is ultimately responsible in fulfilling any FRIB defined pre-experiment procedures but the FDS_i Group will make the best effort to assist in this process.
- PIs are encouraged to submit a short abstract (one-page limit) to the UEC that communicates the aim of their intended proposal 30 days before a proposal deadline. The UEC and FDS Initiator Group will use this information to recommend possible bundling of proposals that can be achieved simultaneously. In such situations, the UEC, in coordination with the FDS Initiator Group, will contact the involved parties and broker an agreement on the nominal detector configuration and data sharing.
- All issues surrounding duplicate or overlapping proposals should be resolved amongst the proposal PIs and detector points-of-contact if possible before final submission.
- When contributors within the FDS Initiator Group submit proposals surrounding their own hardware, they must follow the rules set in this document and those of the FDS Users Group Charter if they rely on FDS_i resources that do not belong to their institution, or, if they use the FDS_i branding.

FDSi Group Members as of November 2019:

J.M. Allmond
M. Carepenter
B.P. Crider
A. Gade
R. Grzywacz
K.L. Jones
S.N. Liddick
A. Macchiavelli
M. Madurga
C. Rasco
K. Rykaczewski
A. Spyrou
H. Schatz
D. Seweryniak
V. Tripathi
C. Wrede