

# XUNDL report

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In fiscal year 2017, XUNDL compiled 710 datasets from 310 papers. In fiscal year 2018, XUNDL compiled 585 datasets from 253 papers. The majority of the effort for XUNDL comes from the centers, ANL, BNL, LBNL, McMaster, MSU, ORNL, and TUNL. Approximately 10 papers were compiled as part of the exercises for the Trieste workshop, under the guidance of the workshop lectures. Additionally, RIKEN has begun to contribute compilations working with the ANL data center.

The biggest development in XUNDL has been our project with Physical Review C to compile and check papers prior to their publication. A pilot project was started in March of 2018. Following its success, by the summer of 2018 we had moved to a so-called “opt-in” policy. Authors, upon submission of their manuscript, are asked if they would like to send their paper to the USNDP for checking. Currently approximately 85% of the authors opt-in for pre-publication checking. In several instances, major issues were identified with the data and led to substantial revisions of the manuscript. Authors have provided overwhelmingly positive feedback to this process. The NSDD network can assist in this endeavor by encouraging their experimental colleges to participate in the pre-publication checking project.

Two main avenues are planned to be pursued in the future. First, is to expand the pre-publication checking to Elsevier journals. Discussions with Elsevier have been initiated to begin this process. Second, the XUNDL effort needs to develop a strategy to follow up on manuscripts which went through the pre-publication checking, but were not accepted for publication in Physical Review C. As publication times can take up to a year, and we have only been running the program for a year, this is a topic which should be addressed within the next 6 months.