The Nuclear Science Division conducts basic research aimed at understanding the structure and interactions of nuclei and the forces of nature as manifested in nuclear matter – topics that align the Division with the national program as elucidated in the 2007 U.S. Nuclear Science Long Range Plan.

The Division has major programs in low energy nuclear science, including nuclear structure physics, studies of the heaviest elements, exotic nuclei and light radioactive beams, weak interactions, and nuclear reactions; relativistic heavy ion physics; nuclear theory; nuclear astrophysics and neutrino properties; data evaluation; and advanced instrumentation. The Division also operates the 88-Inch Cyclotron. The 88-Inch Cyclotron is the home of the Berkeley Accelerator Space Effects Facility (BASEF) and supports a local research program in nuclear science. The Nuclear Science Division continues to exploit new opportunities to enable cutting edge science and provides for science education of the general public and students at all levels.

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NSD Calendar site

NSD Newsletter Archive

NSD Newsletter April 2018:

- RNC brings supercomputing to heavy ions
- Medical imager photographs 88-inch cyclotron beam, for cancer studies
- From the cockpit to the lab – former USAF test pilot lands at in Berkeley Lab's NSD
- Fragments
- Newsletter notes
NSD Seminars

- NSD Colloquia
- HIT: Heavy Ion Tea
- INPA Journal Club
- Nuclear Physics Forum

External Links

- LBNL home page
- LBNL Physics Division
- LBNL Accelerator Technology and Applied Physics Division
- LBNL Engineering Division
- DOE Office of Nuclear Physics