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Irradiation and Structural Analysis Capabilities at Brookhaven National Laboratory

The unique suite of tools available at Brookhaven National Laboratory (BNL), which provides irradiations capabilities at the Brookhaven Linac Isotope Producer (BLIP) along with on-site structural analysis capabilities at the National Synchrotron Light Source II (NSLS-II), provides a complementary materials evaluation capability to the High-radiation to Materials Facility (HiRadMat) at CERN. The breadth of materials testing and analysis capabilities available at BNL will be discussed along with some recent results obtained at these facilities. In particular, the range of irradiation options at BLIP, which can provide fluences of $\sim 10^{21}$ protons/cm² as well as irradiation with secondary spallation neutrons, and analysis options at the NSLS-II using beam lines such as the X-Ray Powder Diffraction (XPD) line will be described.

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