

50 Years of Neutron Backscattering Spectroscopy



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Neutron backscattering at NIST

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The NIST High Flux Backscattering Spectrometer (HFBS) was the first backscattering instrument constructed in the U.S. With over 250 publications to its credit, it has been one of the NCNR's flagship instruments. In this presentation we will describe a brief history of HFBS from inception to the first user experiment. In addition, we will describe one of the instrument's most innovative features –the first implementation of a phase space transform chopper, originally proposed by Schelten & Alefeld.

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