High-Resolution Monochromators

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An high-resolution monochromator is an essential component of nuclear resonant scattering measurements. Significant developments have occurred over recent years that allow the construction of 1 meV monochromators with good efficiency. These developments include weak-link mechanical assemblies, cryogenic stabilization, and novel crystal configurations. A variety of high-resolution monochromators employing different designs will be presented along with their measured performances. Prospects for future improvements in energy resolution will also be discussed.

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