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ward direction. Deviation from standard spectra, typically interpreted as binary collisions, is observed due to the projectile-heavier-than-target nature of scattering. The measured spectra can be interpreted as collective events that are more pronounced due to an inverted mass ratio. Linear relationships in perpendicular and parallel "components" of energy loss at the two different incident angles help identify scattering events that lead to reflection of heavy atoms from the surface.

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