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An Interactive 3D Interface to Model Complex Surfaces and Simulate Grazing Incidence X-ray Scatter Patterns ELIOT GANN, North Carolina State University, Jema Science Inc., SLIM CHOUROU, ABHINAV SARJE, Lawrence Berkeley National Laboratory, HARALD ADE, North Carolina State University, CHENG WANG, ELAINE CHAN, Lawrence Berkeley National Laboratory, XIAODONG DING, Jema Science Inc., ALEXANDER HEXEMER, Lawrence Berkeley National Laboratory — Grazing Incidence Scattering is becoming critical in characterization of the ensemble statistical properties of complex layered and nano structured thin films systems over length scales of centimeters. A major bottleneck in the widespread implementation of these techniques is the quantitative interpretation of the complicated grazing incidence scatter. To fill this gap, we present the development of a new interactive program to model complex nano-structured and layered systems for efficient grazing incidence scattering calculation.

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