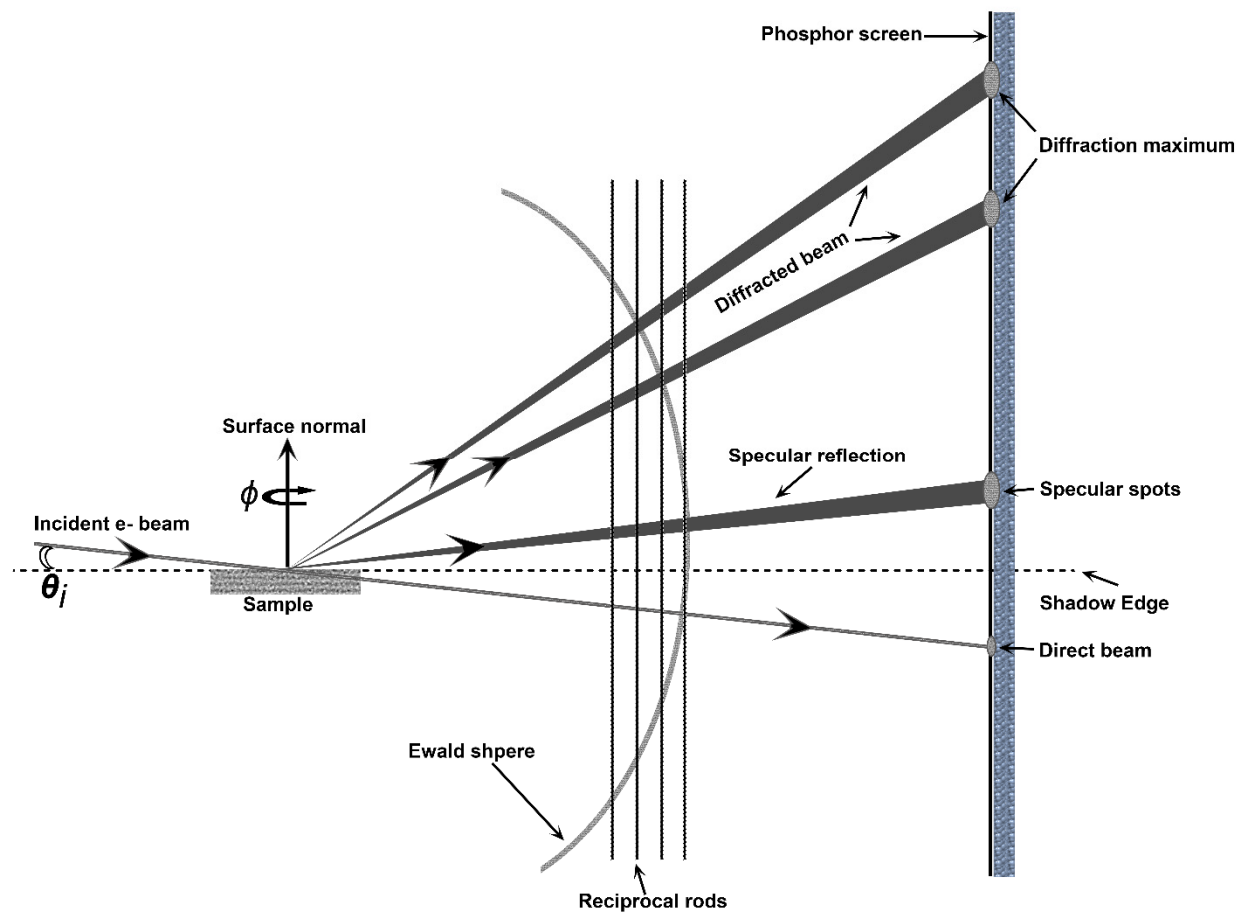


# Structures of Self-Assembled *n*-Alkanethiols on Gold by Reflection High-Energy Electron Diffraction

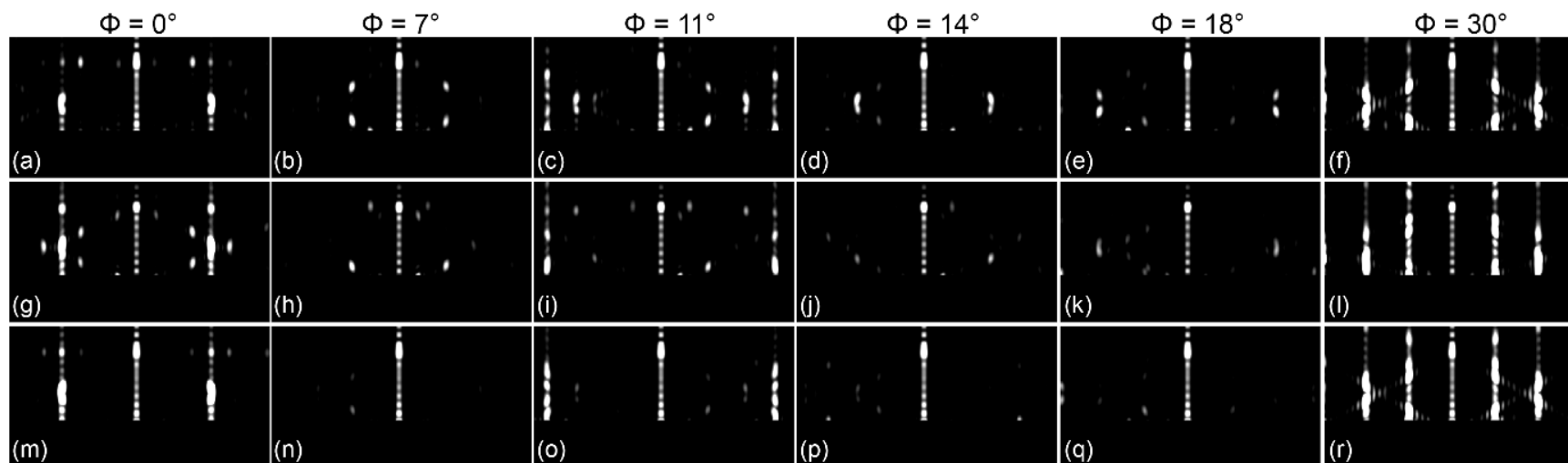
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**Figure S1.** Schematic of a RHEED set-up and the Ewald construction for image formation from a two-dimensional lattice.



**Figure S2.** Simulated RHEED patterns according to three  $(2\sqrt{3} \times 3)_{\text{rect}}$  structures for select azimuths. (a–f) Based on Figure 1h with a combination of the models shown in Figure 1, c and g for the sulfur headgroups. (g–l) Based on Figure 1d with the sulfur headgroups as in Figure 1a. (m–r) Based on Figure 1f with the sulfur headgroups as in Figure 1e.