Diffuse scattering and its analysis

The diffraction patterns of disordered crystalline materials contain a diffuse component in addition to the well-studied Bragg reflections. This talk will attempt to survey the many different approaches to interpreting this diffuse scattering so as to obtain insight into the particular type of disorder present. It will cover a range of different diffuse scattering measurements: single-crystal and powder; X-ray and neutron; and magnetic and nuclear. In the same spirit, it will cover a large variety of different analysis approaches, based on real-, reciprocal-, and interaction-space interpretations.

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