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Analysis of the disordered crystal structure of LiBH_4 by 3D- Δ -PDF

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LiBH_4 shows strong diffuse scattering in layers normal to c^* at integer l , predominantly at odd l . The diffuse scattering within the layers is circular around the Bragg reflections and stronger close to the reciprocal origin. This observation fits to columnar defects with a negative correlation in the a - b -plane and preserved correlation along c . The 3D-DELTA-PDF shows an intricate pattern of positive and negative peaks, which were interpreted with by manual Patterson search.

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