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Veit Elser (Submitted on 20 Jul 2011)

intensity correlations

We develop the analysis of x-ray intensity correlations from dilute ensembles of identical particles in a number of ways. First, we show that the 3D particle structure can be determined if the particles can be aligned with respect to a single axis having a known angle with respect to the incident beam. Second, we clarify the phase problem in this setting and introduce a data reduction scheme that assesses the integrity of the data even before the particle reconstruction is attempted. Finally, we describe an algorithm that reconstructs intensity and particle density simultaneously, thereby making maximal use of the available constraints.

Three dimensional structure from

Comments: 17 pages, 9 figures Subjects: Data Analysis, Statistics and Probability (physics.dataan); Other Condensed Matter (cond-mat.other); Optics (physics.optics) arXiv:1107.4030 [physics.data-an] Cite as: (or arXiv:1107.4030v1 [physics.data-an] for this version)

Submission history

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Physics > Data Analysis, Statistics and Probability