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同步辐射，自由电子激光，核技术应用等

Instrumentation of coherent X-ray imaging and the primary experimental results

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摘要

Coherent X-ray microscopy has advanced towards higher-energy, more brilliant sources over the past decade since its demonstrations, and many advancements have been made towards optimizing this imaging technique. Here we present both the experimental instrument for obtaining diffraction patterns and the primary reconstruction of yeast cell 2D projection. In addition, the characteristics of the existing optics at BL29XUL of SPring-8 Facility and the method of image reconstruction are discussed.

关键词

CXDM, oversampling, image reconstruction, phase retrieval

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