

# Spinning Registration Reconstruction Quantization, a new reconstruction method for electron tomography

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SRRQ (Spinning Registration Reconstruction Quantization) is a reconstruction method alternating projections alignment and segmentation of reconstructed volume. This method reconstructs alternately and iteratively an object complying a priori constraints, and an object which some projections comply registered projections known experimentally. A priori constraints are derived for an object to reconstruct which is piecewise constant and which has a known limited number of phases. SRRQ well manages missed wedge reconstruction and misaligned projections which are typical constraints of electron tomography. In this talk, we present the SRRQ method and give some results on 2D simulations.

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**Classification de Session:** Tomographic reconstruction methods

**Classification de thématique:** Inverse problem in Applied Mathematics