

# **Inside modulation-collimator-based Fourier Transform imaging**

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By discussing the principle and the implementation of modulation\_collimator\_based Fourier Transform imaging,we conclude the universal rule of imaging with few sensors/detectors,that is image compression with hardware first ,image reconstruction with software following. In this paper we discuss (1) why do we choose Fourier Transform (2)how modulation collimator modulates the photons ,along with the relation to Fourier Transform (3)how the images of the source are reconstructed and cleared (4)what do we learn from modulation\_collimator\_based Fourier transform imaging