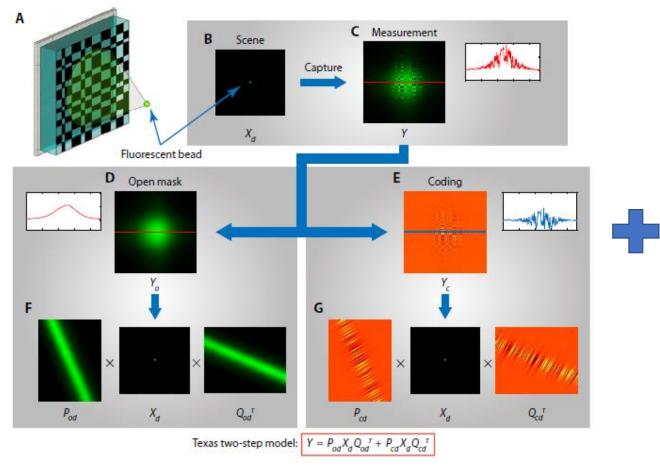
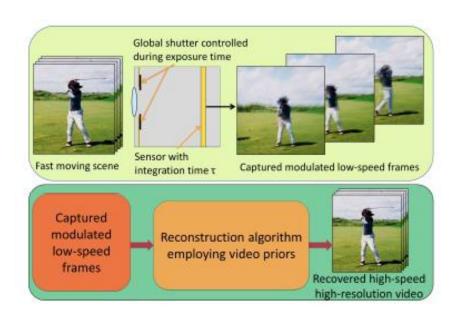
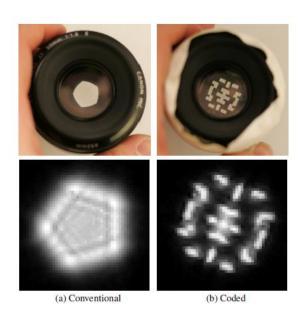
Main-idea: Coded-Aperture



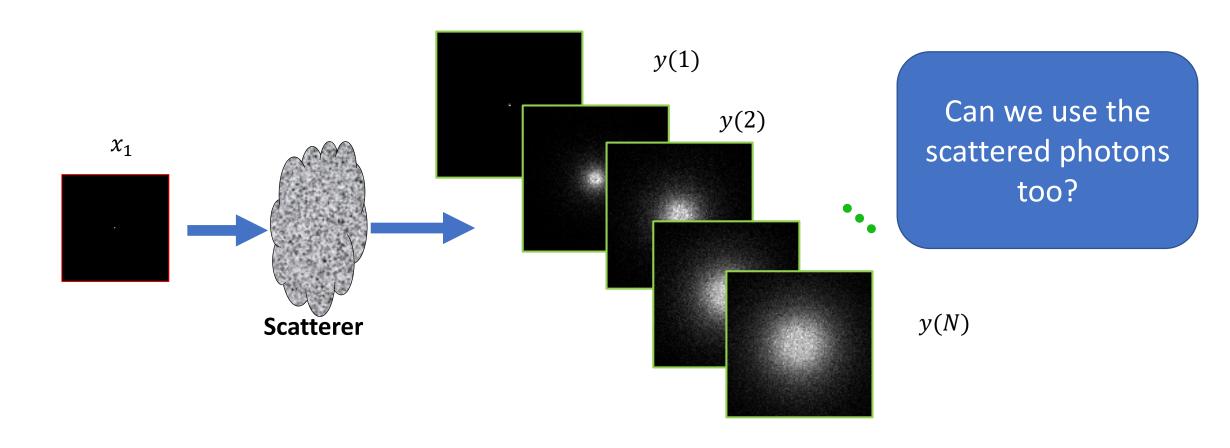
*Flat-Scope



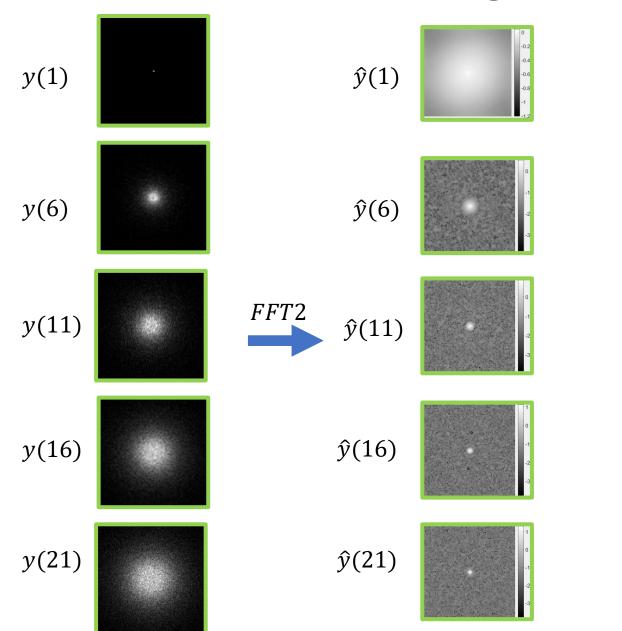


*Flutter-Shutter/Coded-Aperture

STPSF approach

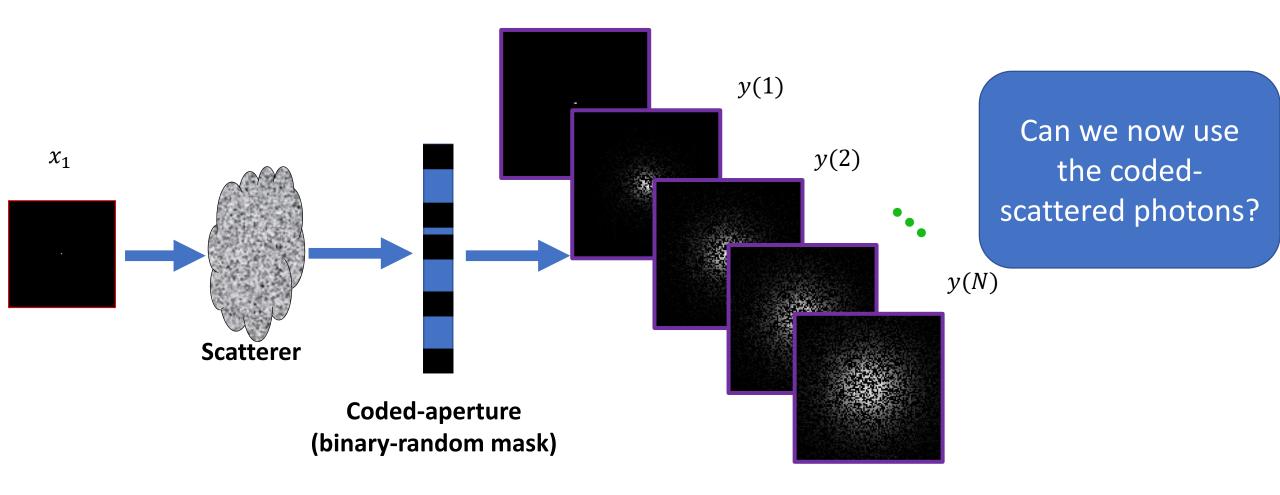


Problem with using scattered photons

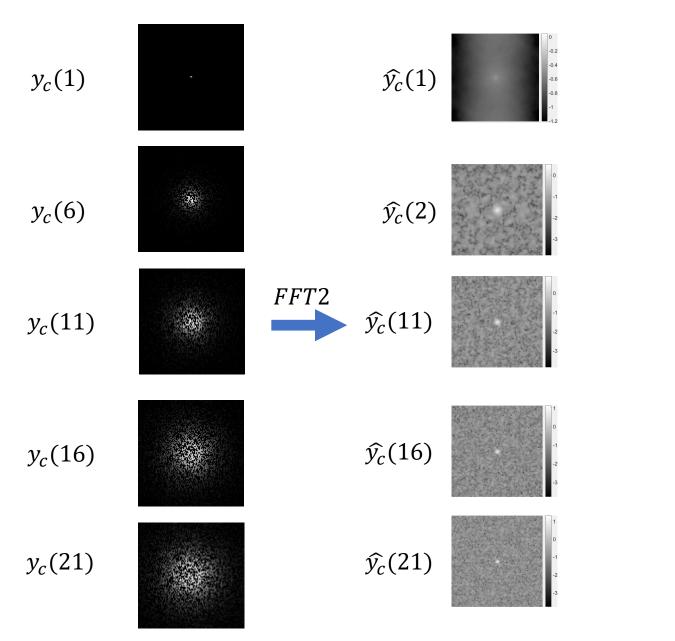


Very quickly highfrequency information lost.

STPSF approach: Coded-aperture



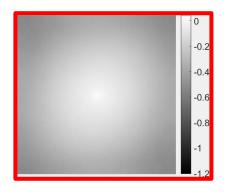
Can we use the coded scattered photons?

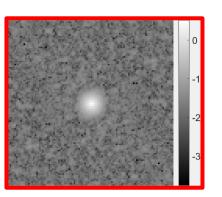


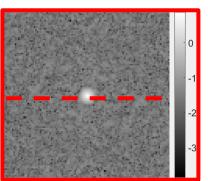
Is the highfrequency information preserved now?

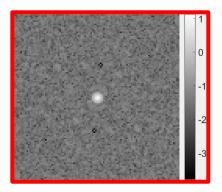
Effect of coding in frequency-domain

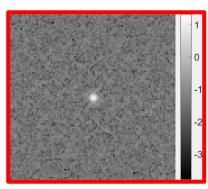
Scatteredphotons



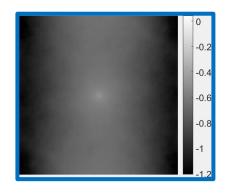


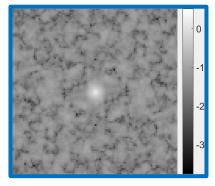


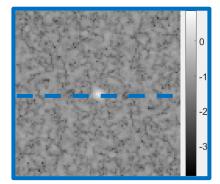


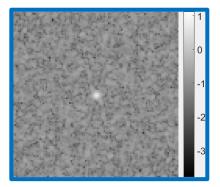


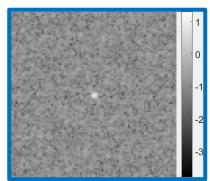
Coded scattered-photons



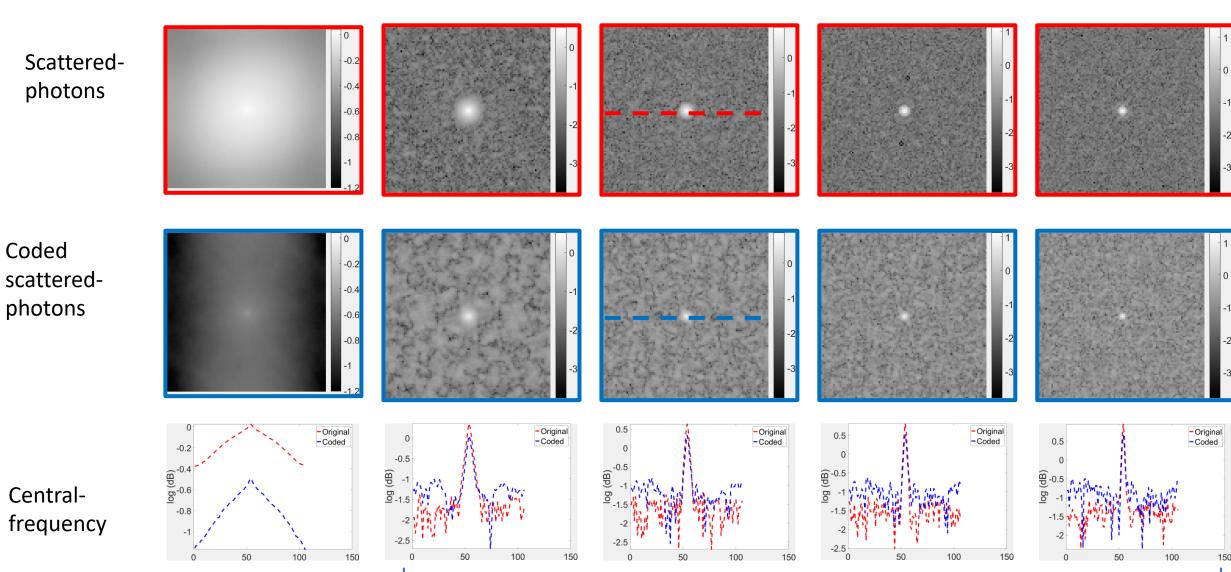






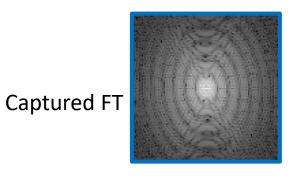


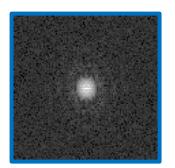
Effect of coding in frequency-domain

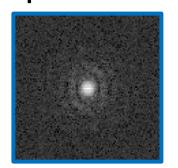


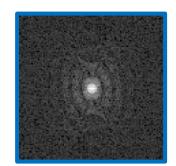
Roughly 1 dB improvement in the high-frequency attenuation.

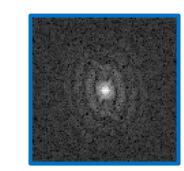
Fourier-domain: Scattered-photons







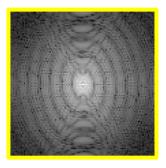


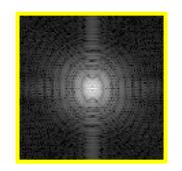


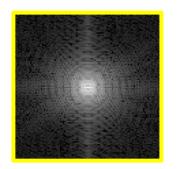
GT

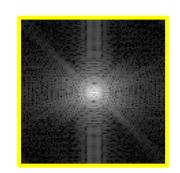


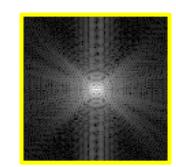
Deconvolved FT



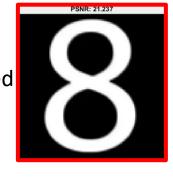


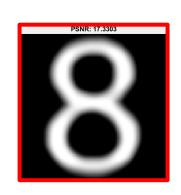


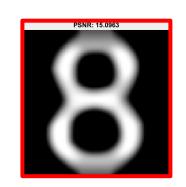


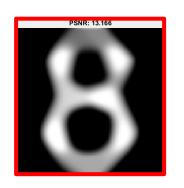


Deconvolved







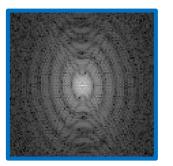


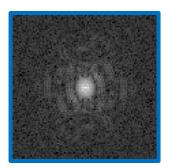


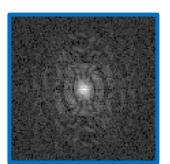
Fourier-domain: Coded-scattered photons

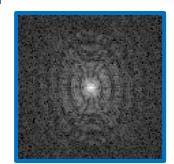
High-frequency information: Slight improvement

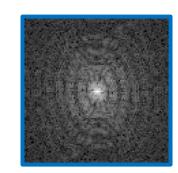
Captured FT







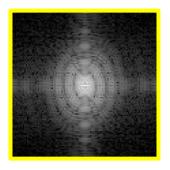


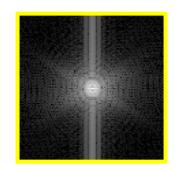


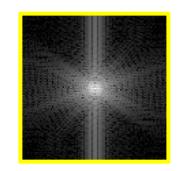
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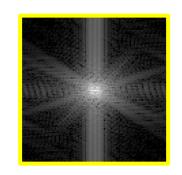


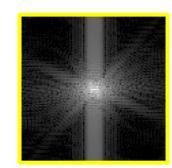
Deconvolved FT

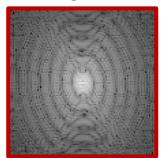




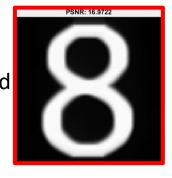






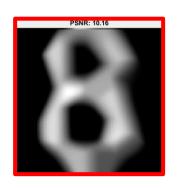


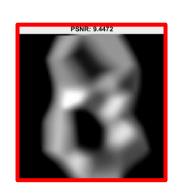
Deconvolved



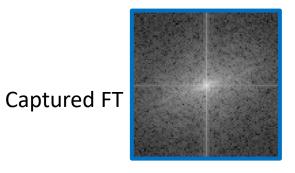


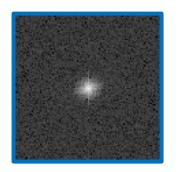


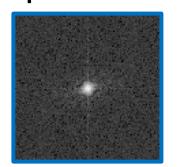


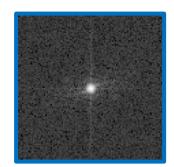


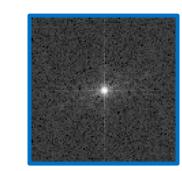
Fourier-domain: Scattered-photons







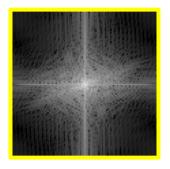


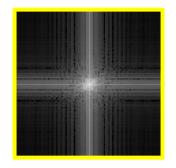


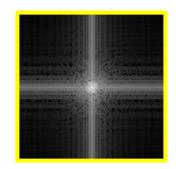
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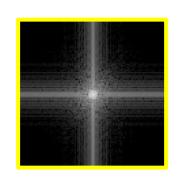


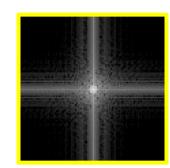
Deconvolved FT







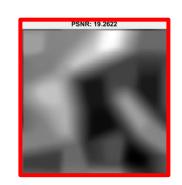




Deconvolved







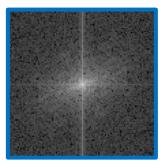


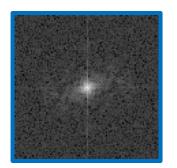


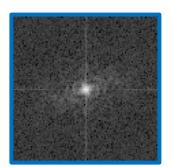
Fourier-domain: Coded-scattered photons

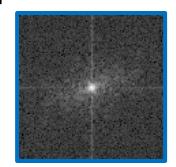
High-frequency information: Slight improvement

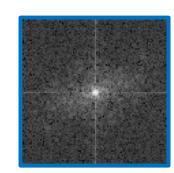
Captured FT







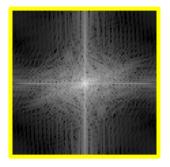




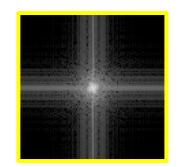
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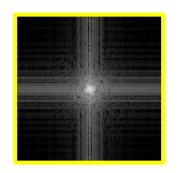


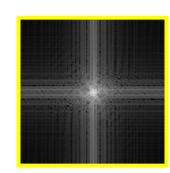
Deconvolved FT













Deconvolved



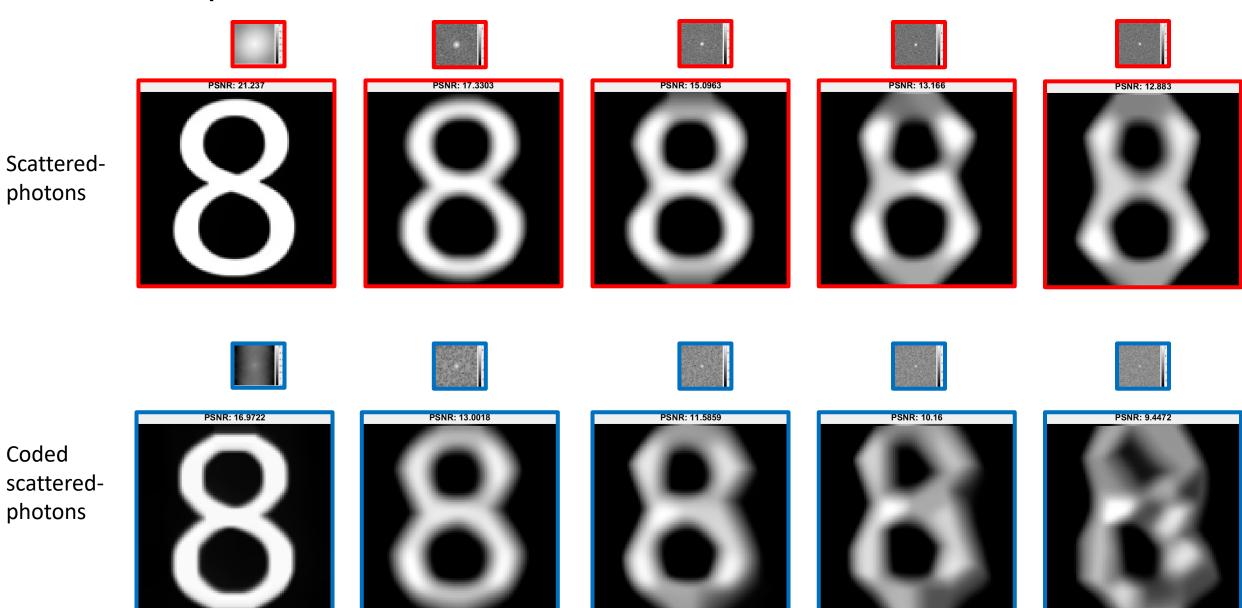








Comparison of deconvolution



Comparison of deconvolution

