

Quantum optics with new toys

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I will discuss a few experiments with photons, trying to convince you that:

1. It is possible to image objects without detecting the light scattered by them.
2. Correlations between two particles can be witnessed by detecting only one particle.
3. Spatial phase of a single photon can be measured.

The experiments share the idea of replacing single pixel detectors with cameras in the classic setups of Leonard Mandel.