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Shaping Single Photons By Fiber Bragg Gratings

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Fiber Bragg gratings (FBGs) are distributed reflectors realized by periodic or aperiodic variation of refractive in optical fibers. In this work, we explore the waveform shaping of a phase-modulated optical pulse at the single photon level in a FBG. We describe the theory, simulation, techniques and provide anovel approach to control waveform.

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