

Scheme for Concentration of Unknown Photonic GHZ Entangled States via Linear Optical Elements

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Abstract: We propose two schemes to concentrate unknown nonmaximally tripartite GHZ entangled states via linear optical elements. The final maximally entangled states obtained from our schemes are shared by two or three parties. Our schemes only need polarizing beam splitters and single-photon detectors. In addition, the schemes can be demonstrated within current experimental technology.

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Key words: unknown photonic GHZ entangled states, concentration, linear optical elements

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