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Scheme for coherent-state quantum process tomography by using moments

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Abstract

I will talk about a new scheme for characterizing quantum-optical processes using coherent states as probe states. The method is theoretically based on normally-ordered moments. I will first make a brief introduction on some ubiquitous notions in quantum optics as well as quantum process tomography. Next, after giving some motivations, the technique will be discussed. My talk will be closed with illustrating the method by three examples, the last of which is the important case of multi-mode Gaussian processes.