

Constructing Even- and Odd-Negative Binomial States

FAN Hong-Yi^{1,2} and LI Su¹

¹ Department of Material Science and Engineering, University of Science and Technology of China, Hefei 230036, China

² Department of Physics, Shanghai Jiao Tong University, Shanghai 200030, China
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Abstract: By suitably choosing the normalization factors we introduce the even- and odd-negative binomial states. In some limit cases they approach the even- and odd-coherent states, respectively. We also derive a new eigenvector equation that the negative binomial state satisfies as a nonlinear coherent state.

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Key words: even- and odd-negative binomial states, normalization, coherent states

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