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Squeezed Number State Solutions of Generalized Two-Mode Harmonic Oscillators Model: an Algebraic Approach

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Abstract: Some analytical solutions of generalized two-mode harmonic oscillators model are obtained by utilizing an algebraic diagonalization method. We find two types of eigenstates which are formulated as extended SU(1,1), SU(2) squeezed number states respectively. Some statistical properties of these states are also discussed.

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