

Generalized Bargmann Representation of Spin Coherent State

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Abstract: Based on the conclusion that the generalized Bargmann representation of a two-mode Fock state is a two-variable Hermite polynomial function [Hong-Yi Fan and Jun-hua Chen, Phys. Lett. A303 (2002) 311] we derive the generalized Bargmann representation of the spin coherent state and some new relations in the generalized function space.

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Key words: spin coherent state, generalized Bargmann representation, Hermite polynomials

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