

Coherent State Projection Operator Representation of Symplectic Transformations as a Loyal Representation of Symplectic Group

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Abstract: We find that the coherent state projection operator representation of symplectic transformation constitutes a loyal group representation of symplectic group. The result of successively applying squeezing operators on number state can be easily derived.

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Key words: coherent state projection operator, symplectic transformation, squeezing operator

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