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Algorithms for Boson Realizations of $SU(n)$

Wednesday 17 June 2015 19:00 (2 minutes)

We devise a procedure for calculating boson realizations of canonical basis-states of $SU(n)$ for arbitrary n . We employ our boson realization to calculate Wigner $\mathcal{D}$ -functions of $SU(n)$ in the canonical Gelfand-Tsetlin basis and connect these functions to outputs from multi-photon interferometry.

Author: DHAND, Ish (University of Calgary)

Co-authors: SANDERS, Barry (University of Calgary); DE GUISE, Hubert (Lakehead University)

Presenter: DHAND, Ish (University of Calgary)

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