

THE SPECTRUM OF THE LAPLACE OPERATOR ON CONNECTED COMPACT SIMPLE LIE GROUPS OF RANK FOUR. II

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In the present article, we explicitly compute the spectrum of the Laplace operator on smooth real-valued and complex-valued functions on connected compact simple Lie groups of rank four with a bi-invariant Riemannian metrics that correspond to the root systems A_4 and F_4 .

Key words and phrases: Laplace operator, spectrum, group representation, Killing form, Ricci curvature.

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