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Title:	The Peter-Weyl Theorem for Compact Groups
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Abstract:	This thesis discusses the Peter-Weyl theorem on compact Hausdorff groups which generalises the classical Plancherel theorem on the circle group $S^1$ . We also provide explicit calculations to decompose $L^2(G)$ into irreducible unitary representations for the $SU(2)$ group. Additionally, we state and briefly outline the Gelfand-Raikov Theorem, which states that irreducible unitary representations of locally compact groups separate points.
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