

Analytic Continuation of Group Representations

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Abstract. Some general methods for analytically continuing group representations are presented. In favorable cases, this enables one to recognize the generalization of the "principal", "discrete" and "supplementary" series.

1. Introduction

In [4] we pointed out there is a natural way of "analytically continuing" certain types of unitary representations of non-compact semi-simple Lie groups to finite dimensional representations, i.e. to unitary representations of the compact real form of the group. This phenomenon is quite well-known in case the group is $SL(2, R)$, and is associated in that case with the "Regge pole" ideas of elementary particle physics. Y. NE'EMAN has suggested that the extension of this idea to the other Lie groups used to classify elementary particles (e.g. $SU(3)$) might have physical applications. With these possibilities in the background, this paper is devoted to the mathematical problems. In particular, we will extend the method used in [4] for analytic continuation (which required that the representation satisfied the "Gell-Mann formula") to considerably more general and useful situations. On the other hand, in order to make the methods understandable to a non-specialist, we have not tried to push them to their natural limits.

Let G be a Lie algebra, and let H be a Hilbert space. Denote the abstract typical elements of G by X, Y , etc. Suppose that $X \rightarrow X'$ defines a representation of G by skew-Hermitian operators on H . An *analytic continuation* of this representation is a family G^λ of representations $X \rightarrow X^\lambda$ of G by operators depending complex-analytically on the parameter λ , reducing to the given one for $\lambda = 0$. In this paper, we will consider such continuations defined by "infinitesimal multipliers". These, will be shown to be skew-Hermitian for pure imaginary values of λ , which will define the analog of the "principal series" known for $SL(2, R)$ and other classical groups, [1, 2]. In [4] we showed that a special type of such analytic continuations is reducible for a discrete set of real values of λ . Here, we shall analyze the conditions for such behavior more

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Analytic Continuation Of Group Representations

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Moore, Robert J. Zimmer**



Analytic Continuation Of Group Representations:

Analytic Continuation of Group Representations Elias M. Stein, 1971 *Analytic Continuation of Group Representations* Meir Shinnar, 1978 **Analytic Continuation of the Irreducible Unitary Representations of the Universal Covering Group of $SL(2, R)$** Paul J. Sally, 1967 [Analytic Continuation of the Irreducible Unitary Representations of the Universal Covering Group of \$SL\(2, R\)\$](#) Paul J. Sally (Jr.), 1969 *Perturbation and Analytic Continuation of Group Representations* Palle E. T. Jørgensen, 1976 **Analytic Continuation of Group Representation** Elias M. Stein, 1971 [Theory of Group Representations and Applications](#) Asim Orhan Barut, Ryszard Rączka, 1986 Lie algebras Topological groups Lie groups Representations Special functions Induced representations *Group Representations, Ergodic Theory, and Mathematical Physics* Robert S. Doran, Calvin C. Moore, Robert J. Zimmer, 2008 George Mackey was an extraordinary mathematician of great power and vision His profound contributions to representation theory harmonic analysis ergodic theory and mathematical physics left a rich legacy for researchers that continues today This book is based on lectures presented at an AMS special session held in January 2007 in New Orleans dedicated to his memory The papers written especially for this volume by internationally known mathematicians and mathematical physicists range from expository and historical surveys to original high level research articles The influence of Mackey s fundamental ideas is apparent throughout The introductory article contains recollections from former students friends colleagues and family as well as a biography describing his distinguished career as a mathematician at Harvard where he held the Landon D Clay Professorship of Mathematics *Introduction to Classical and Modern Analysis and Their Application to Group Representation Theory* Debabrata Basu, 2011 This book is suitable for use in any graduate course on analytical methods and their application to representation theory Each concept is developed with special emphasis on lucidity and clarity The book also shows the direct link of Cauchy Pochhammer theory with the Hadamard Reisz Schwartz Gel fand et al regularization The flaw in earlier works on the Plancherel formula for the universal covering group of $SL(2, R)$ is pointed out and rectified This topic appears here for the first time in the correct form Existing treatises are essentially magnum opus of the experts intended for other experts in the field This book on the other hand is unique insofar as every chapter deals with topics in a way that differs remarkably from traditional treatment For example Chapter 3 presents the Cauchy Pochhammer theory of gamma beta and zeta function in a form which has not been presented so far in any treatise of classical analysis [Analytic Continuation of the Irreducible Unitary Representations of the Universal Covering Group of \$SL\(2, R\)\$](#) American Mathematical Soc., 1967 Paul Sally, 19?? [Analytic Continuation of the Irreducible Unitary Representations of the Universal Covering Group of \$SL\(2, R\)\$](#) Paul J. Sally (Jr.), 1967 In this paper we construct the irreducible unitary representations of G with realizations somewhat different from those in Puk nszky 1964 We then obtain analytic continuations of these representations into certain domains of the complex plane In one case the principal series our representations are uniformly bounded In

another case the discrete series they are uniformly bounded on bounded subsets of G *Analytic Continuation of the Irreducible Unitary Representations of the Universal Covering Group of $SL(2, R)$* David Kent Harrison, James E. Humphreys, Leon Bernstein, Paul Sally, Richard Scott Pierce, Robert Berger, 1966

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