

**classical special functions and lie groups** - classical special functions and lie groups ryan wasson<sup>1</sup> and robert gilmore<sup>2</sup> <sup>1</sup> mathematics department, pennsylvania state university, university park, pa 16802 <sup>2</sup> physics department, drexel university, philadelphia, pa 19104 abstract the classical orthogonal functions of mathematical physics are closely related to lie groups. **an overview of the relationship between group theory and ...** - mathematician n. vilenkin published the book "special functions and the theory of group representations" (written in 1965; translated into english in 1968) [9]. while the focus in miller's book is still partly on the factorization method and the relationship between special functions and representations of lie algebras, all three **matrix-valued special functions and representation theory ...** - matrix-valued special functions and representation theory of the conformal group, i: the generalized gamma function<sup>1</sup> by kenneth i. gross and wayne j. holman iii in memory of our friend and colleague b. j. pettis abstract. this article examines in detail the matrix-valued gamma function  $\Gamma^*(a) = \int_0^\infty e^{-r} r^{a-1} (\det r)^{-2} dr$  **group theory - drexel university** - of a gauge theory, based on the simplest compact one parameter lie group  $u(1)$ , in sec. xiii. for an encore, in sec. xiv we show how the theory of the special functions of mathematical physics (legendre and associated legendre functions, laguerre and associated laguerre functions, gegenbauer, chebyshev, her- **the lie theory approach to special functions** - functions commonly called "special" obey symmetry properties that are best described via group theory (the mathematics of symmetry). in particular, those special functions that arise as explicit solutions of the partial differential equations of mathematical physics, such as via separation of variables, can **quantum groups and special functions - wiskunde** - group theory and special functions. so one calculates the matrix elements of irreducible representations explicitly in terms of special functions and next uses this interpretation to find all kinds of properties of these special functions. the purpose of these lecture notes is to give an introduction to locally compact **representation of lie groups and special functions review ...** - the special functions are then brought into play and usually the remainder of such a chapter is on the special functions involved. then the role of the group is pushed into the background and the special functions take a predominant role. some special functions identities derived do not involve any group theoretic considerations. **math 210b. why study representation theory? motivation** - amazing book "special functions and the theory of group representations" by vilenkin; later chapters in this book use the representation theory of other physically significant lie groups (the lorentz group, the group of euclidean motions, etc.) to explain a vast array of properties of many special functions of mathematical physics. **i.c .. biedenbarn, r.a. gustafson, m.a. lohe, j.d. louck ...** - special functions and group theory in theoretical physics 131 theoretic, methods in the approach to spherical functions in terms of convolution algebras (helgason [8]). let us turn now from these well-established basic ideas to more recent, less widely known, approaches. the main theme is

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