

## Moment Maps and Combinatorial Invariants of Hamiltonian T<sup>n</sup>-spaces



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*(Mr. Rafael Hoeger)*

## MOMENT MAPS AND COMBINATORIAL INVARIANTS OF HAMILTONIAN TN-SPACES



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Birkhäuser Dez 1994, 1994. Buch. Book Condition: Neu. 235x155x15 mm. This item is printed on demand - Print on Demand Titel. Neuware - The action of a compact Lie group,  $G$ , on a compact symplectic manifold gives rise to some remarkable combinatorial invariants. The simplest and most interesting of these is the moment polytope, a convex polyhedron which sits inside the dual of the Lie algebra of  $G$ . One of the main goals of this monograph is to describe what kinds of geometric information are encoded in this polytope. For instance, the first chapter is largely devoted to the Delzant theorem, which says that there is a one-one correspondence between certain types of moment polytopes and certain types of symplectic  $G$ -spaces. (One of the most challenging unsolved problems in symplectic geometry is to determine to what extent Delzant's theorem is true of every compact symplectic  $G$ -Space.) The moment polytope also encodes quantum information about the actions of  $G$ . Using the methods of geometric quantization, one can frequently convert this action into a representations,  $\rho$ , of  $G$  on a Hilbert space, and in some sense the moment polytope is a diagrammatic picture of the irreducible representations of  $G$  which occur as subrepresentations of  $\rho$ . Precise versions of this item of folklore are discussed in Chapters 3 and 4. Also, midway through Chapter 2 a more complicated object is discussed: the Duistermaat-Heckman measure, and the author explains in Chapter 4 how one can read off from this measure the approximate multiplicities with which the irreducible representations of  $G$  occur in  $\rho$ . This gives an excuse to touch on some results which are in themselves of great current interest: the Duistermaat-Heckman theorem, the localization theorems in equivariant cohomology of Atiyah-Bott and Berline-Vergne and the recent extremely exciting generalizations of these results...



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