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Nota di contenuto	Contents -- Preface -- Expository Papers -- The Plancherel Formula, the Plancherel Theorem, and the Fourier Transform of Orbital Integrals -- Branching Problems of Zuckerman Derived Functor Modules -- Chiral Equivariant Cohomology of Spheres -- 1. Introduction -- 2. Homotopy invariance -- 3. Conformal and quasi-conformal structures -- 4. Chiral equivariant cohomology of homogeneous spaces -- 5. Finite-dimensionality of $H_a^{??}G(M)$ for compact M -- 6. Chiral equivariant cohomology of spheres -- 7. The chiral point algebra -- Research Papers -- Computing Global Characters -- Stable Combinations of Special Unipotent Representations -- Levi Components of Parabolic Subalgebras of Finitary Lie Algebras -- On Extending the Langlands-Shahidi Method to Arithmetic Quotients of Loop Groups -- The Measurement of Quantum Entanglement and Enumeration of Graph Coverings -- The Dual Pair $(Op,q,OSp2,2)$ and Zuckerman Translation -- On the Algebraic Set of Singular Elements in a Complex Simple Lie Algebra -- An Explicit Embedding of Gravity and the Standard Model in $E8$ -- From Groups to Symmetric Spaces -- 1. Notation -- 2. Almost diagonal symmetric spaces -- 3. A generalization of Schur's lemma -- 4. Elliptic curves arising from a symmetric space -- 5. Dimension of a nilpotent orbit -- 6. Some

intersection cohomology sheaves -- 7. Generalization of a theorem of Steinberg -- 8. F-thin, F-thick nilpotent orbits -- 9. F-thin nilpotent orbits and affine canonical bases -- 10. Character sheaves on p -- 11. Computation of a Fourier transform -- 12. Another computation of a Fourier transform -- 13. Computation of a Deligne-Fourier transform.
