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Nota di contenuto	Introduction -- Part I: Quantum Symmetries -- Quantum Mechanics and Central Extensions -- Induced Representations -- Semi-direct Products -- Coadjoint Orbits and Geometric Quantization -- Part II: Virasoro Symmetry and AdS3 Gravity -- The Virasoro Group -- Virasoro Coadjoint Orbits -- Symmetries of Gravity in AdS3 -- Part III: BMS3 Symmetry and Gravity in Flat Space -- Classical BMS3 Symmetry -- Quantum BMS3 Symmetry -- Partition Functions and Characters -- Conclusions.
Sommario/riassunto	This thesis presents the state of the art in the study of Bondi-Metzner-Sachs (BMS) symmetry and its applications in the simplified setting of three dimensions. It focuses on presenting all the background material in a pedagogical and self-contained manner to enable readers to fully appreciate the original results that have been obtained while learning a number of fundamental concepts in the field along the way. This makes it a highly rewarding read and a perfect starting point for anybody with a serious interest in the four-dimensional problem.