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**Sinopsis**

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It contains original research and survey articles on various topics in the theory of representations of Lie algebras, quantum groups and algebraic groups, including crystal bases, categorification, toroidal algebras and their generalizations, vertex algebras, Hecke algebras, Kazhdan-Lusztig bases,  $q$ -Schur algebras, and Weyl algebras.

Readership

Graduate students and research mathematicians interested in representation theory, Lie algebras, quantum groups, and algebraic groups.

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