

Einstein Metrics and Yang-Mills Connections

This volume contains papers presented at the 27th Taniguchi International Symposium, held in Sanda, Japan - focusing on the study of moduli spaces of various geometric objects such as Einstein metrics, conformal structures, and Yang-Mills connections from algebraic and analytic points of view.; Written by over 15 authorities from around the world, Einstein Metrics and Yang-Mills Connections.: discusses current topics in Kaehler geometry, including Kaehler-Einstein metrics, Hermitian-Einstein connections and a new Kaehler version of Kawamata-Viehweg's vanishing theorem; explores algebraic geometric treatments of holomorphic vector bundles on curves and surfaces; addresses nonlinear problems related to Mong-Ampere and Yamabe-type equations as well as nonlinear equations in mathematical physics; and covers interdisciplinary topics such as twistor theory, magnetic monopoles, KP-equations, Einstein and Gibbons-Hawking metrics, and supercommutative algebras of superdifferential operators.; Providing a wide array of original research articles not published elsewhere Einstein Metrics and Yang-Mills Connections is for research mathematicians, including topologists and differential and algebraic geometers, theoretical physicists, and graduate-level students in these disciplines.



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