

21 世紀 COE プログラム

物質階層融合科学の構築

講演案内

日 時 : 2月14日(月) 4:00 pm ~
場 所 : 理学部数理科学記念館(川井ホール)

Richard Schoen

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"Current directions in mathematical general relativity"

This talk will survey recent progress and current directions in the mathematical theory of General Relativity. We will mainly emphasize the initial value problem for asymptotically flat spacetimes, including the geometry of the constraint equations and the conserved quantities for the Einstein equations. We will describe new methods of solving the constraint equations which yield information about the asymptotic behavior of solutions. In particular, they give new insight into the asymptotic physical quantities, the total energy, linear and angular momentum.