



International Max Planck Research School Mathematics in the Sciences

$$\int (g_{ij}(\phi) \partial_\mu \phi^i \partial^\mu \phi^j + i g_{ij}(\phi) \bar{\psi}^i \gamma^\mu D_\mu \psi^j + \frac{1}{4} R_{ijkl} \bar{\psi}^i \psi^j \bar{\psi}^k \psi^l) d^2x$$



The new *International Max Planck Research School Mathematics in the Sciences* offers PhD fellowships for qualified students with an excellent background in mathematics or related fields.

The *Max Planck Research School Mathematics in the Sciences* is a cooperation of the Max Planck Institute for Mathematics in the Sciences and the Department of Mathematics and Computer Sciences and the Department of Physics of the University of Leipzig.

It will lead interested graduate students towards research problems in the physical and life sciences. This involves a broad range of mathematical fields, including geometry, partial differential equations and functional analysis, stochastics, and discrete mathematics. Specific subject areas are:

- Partial Differential Equations and Material Sciences
- Numerical Analysis and Scientific Computing
- Riemannian and Symplectic Geometry and Hamiltonian Systems
- Quantum Field Theory, Particle Physics
- Algebraic Geometry, String Theory
- Geometric and Functional Analytic Methods in Mathematical Physics
- Stochastic Processes, Many Particle Systems
- Complex Systems in Evolutionary Processes and Neurobiology

The first fellowships will be awarded to start on Oct. 1, 2004.

The fellowships will include a generous stipend, and there will be no tuition fees. Teaching will be in English. In addition, German language courses will be provided free of charge.

Applications should include a CV, a transcript of the exams and be sent to the program director

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Letters of recommendation by academic teachers should be sent separately to the above address.

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