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techniques of noncommutative geometry and quantum groups, spinors and twistors, geometric quantization, deformation quantization) quantum dynamical and integrable systems (relations with quantum groups, quantum separation of variables) quantum field theory (Yang-Mills theory, supersymmetric field theories, topological field theories, quantum field theory on curved spacetimes, conformal field theory, statistical field theory, methods from algebraic and differential geometry) quantum gravity (quantization of the gravitational field, supergravity) strings and superstrings (mirror symmetry, branes, matrix models, relations with algebraic geometry and enumerative problems)

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