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**High Energy Physics and Quantum Field Theory**

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## Scientific Program

- Higgs boson studies, searches for new physics and other experimental results from the LHC
- Physics prospects at linear and circular e+e- colliders and super B-factories
- Extensions of the Standard Model and their phenomenological consequences at the LHC and future colliders
- Higher order corrections and resummations for collider phenomenology
- Automatic calculations and Monte Carlo simulations in high energy physics
- Collider physics connections to astroparticle/cosmology
- Modern nuclear physics and relativistic nucleus-nucleus collisions
- Detectors for future experiments in high energy physics

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