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ILC-HiGrade: Towards the International Linear Collider

The International Linear Collider (ILC), a proposed new particle accelerator, promises to radically change our understanding of the universe - revealing the origin of mass, uncurling hidden dimensions of space and even explaining the mystery of dark matter. Advanced superconducting technology will accelerate and collide particles to incredibly high energies down tunnels that span more than 30 km in length.

ILC-HiGrade is the Preparatory Phase initiative of six European laboratories and universities supported by the European Commission under the Framework 7 program to foster the realization of this facility. Key technological challenges in the superconducting acceleration are addressed. In addition the consortiums plans an organizational and governance structure adequate for such a global project.

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