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Lessons Learned from the Large Hadron Collider

After 15 years in construction and 4 years of operation, the LHC has now achieved its design luminosity. It is without doubt the most complex scientific instrument ever built, bringing together science and engineering on a grand scale. The 6000 superconducting magnets weighing nearly 50000 tons in total are cooled with 100 tons of superfluid helium. In this seminar, some of the unique design features of the LHC will be described and the trials and tribulations of bringing it all together are discussed.

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