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## **【11】 Looking forward to new physics with the LHC**

*Tuesday, 5 September 2023 09:00 (45 minutes)*

The Large Hadron Collider (LHC) experiments are currently gathering massive amounts of data to study the Standard Model and search for new physics that could unlock the secrets of matter and interactions. In a few years, the upcoming high-luminosity LHC phase will deploy upgraded detectors of unparalleled precision, allowing us to collect data that is at least 10 times larger than our current dataset. At the same time, innovative experiments investigating uncharted areas of the parameter space in the forward direction of LHC collisions offer tantalizing potential for discovering new physics. This talk will provide an overview of recent progress and results in the search for new physics at the LHC, and will discuss thrilling prospects that lie ahead.

### **Theoretical Work**

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