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## **Beam measurements required in the first two years of LHC commissioning**

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Many beam measurements are essential already in the first phase of the LHC commissioning. Others become necessary only as the intensity and the number of bunches is raised. I will review the beam measurements needed in the various phases of the LHC commissioning, their sequence, and the tools required for performing them. An earlier talk at Chamonix XII discussed beam measurements on the LHC flat bottom. This presentation also addresses acceleration and collision, the priority or order of the various measurements, as well as requirements for instruments and timing.

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