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## The alignment of the LHC during the long shut-down 2008-2009

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The first run of the LHC took place in September 2008 and was stopped brutally after only 2 weeks due to an incident provoked by an electrical short circuit in an interconnection between two magnets. A shut down of one year was decided in order to repair the damaged equipment and the Survey team took advantage of this period to verify and improve the alignment of the components by measuring and smoothing their position in the arcs as well as in the Long Straight Sections (LSS). This paper will cover the different operations accomplished and the results obtained.

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