

## 14th International Workshop on Accelerator Alignment



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# EXPERIENCE WITH THE ALIGNMENT OF LINAC4

LINAC4 (L4) is an H- linear accelerator that will deliver, for the High Luminosity LHC (HL-LHC) project requirements, a beam of protons at 160 MeV energy to the PS complex and then to the LHC. Its connection to the PS booster will take place during the Long Shutdown 2 (LS2) in 2019-2020 or earlier if any major failure of the LINAC2.

The Linac4 project requires the precise alignment with a tolerance of about  $\pm 0.2$  mm in both the horizontal and vertical planes, of elements along approximately 150m beam line until the first bending magnet. The commissioning will take place in 2017 after the final smoothing of the L4 and the L4 transfer line (L4T) components in few months.

The presentation will give an overview of the challenges of the alignment, the issues solved by the survey section, the techniques and methodology used to realise the survey activities over the last 5 five years.

## Summary

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