



Contribution ID: 1058 Contribution code: THPM005

Type: **Poster Presentation**

## Design of the ESS DTL mechanical supports

*Thursday, 11 May 2023 16:30 (2 hours)*

The Drift Tube Linac (DTL) of the European Spallation Source (ESS) is composed of 5 independent Tanks, each of which of 8 t in weight and 8 m in length, is made of 4 modules and is positioned and aligned to the Nominal Beam Line with 2 mechanical supports. The supports are designed to perform the iso-statical alignment of the tank, and to allow its longitudinal displacement for the installation and maintenance of the Intertanks. Presently, 4 of 5 Tanks have been successfully installed and aligned with respect to the Nominal Beam Line, using a Laser Tracker to monitor the position with a tolerance of 0.1 mm.

This paper details the chosen kinematic configuration, the supports design, the calculation and simulations for design validation, the procedures for regulation and alignment and the achieved results.

### Funding Agency

### Footnotes

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Yes

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**Session Classification:** Thursday Poster Session

**Track Classification:** MC7: Accelerator Technology and Sustainability: MC7.T31: Subsystems, Technology and Components, Other