

EVIAN 2019

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Abstract

Cryogenics experience during Run2 and impact of LS2 on next run

The first part will summarize the overall cryogenic performance and availability for Run2. The main evolutions and effects on the cryogenic system during Run2 will be presented as well as the flexibility and adaptability to the transient and dynamic modes.

The second part will focus on the LS2, in particular the major maintenance, consolidation and upgrade activities planned. Expected effects on the global availability and their impact on the cryogenic limitations with respect to the Run3 required cooling power will be highlighted.

Finally, the expected cooling power limitations taking into account the balance between the 1.9 K cooling power allocated to Inner Triplets and the 4.5-20 K non-isothermal refrigeration power used for Beam Screen will be emphasized.