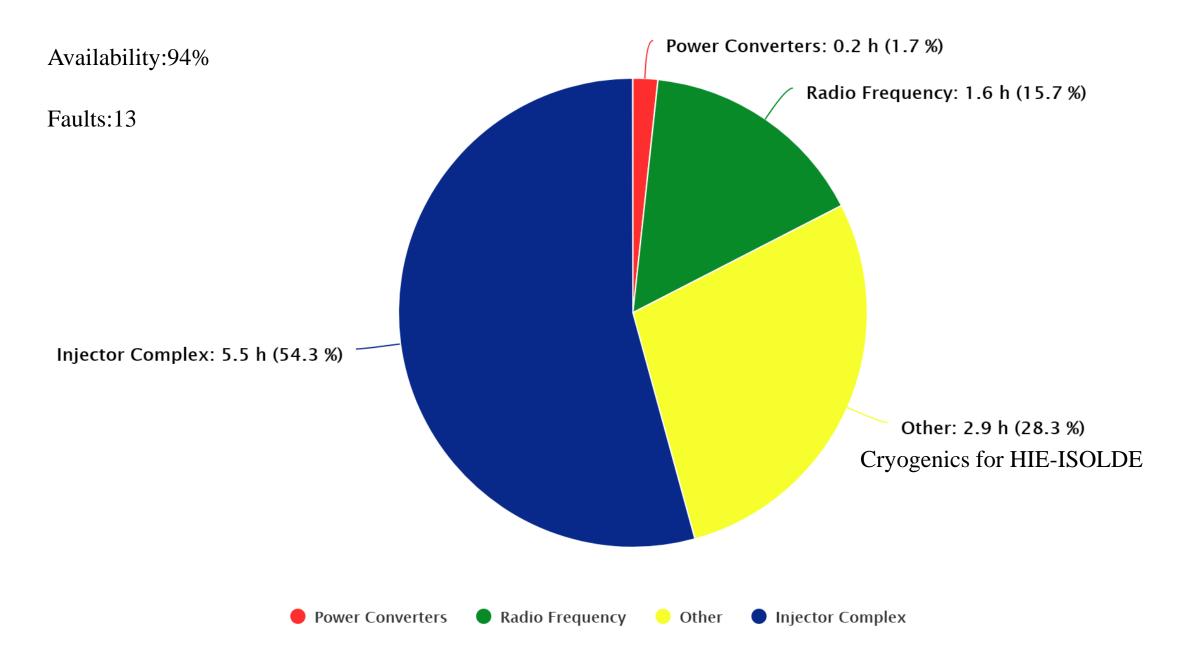
ISOLDE FOM Report on week 32

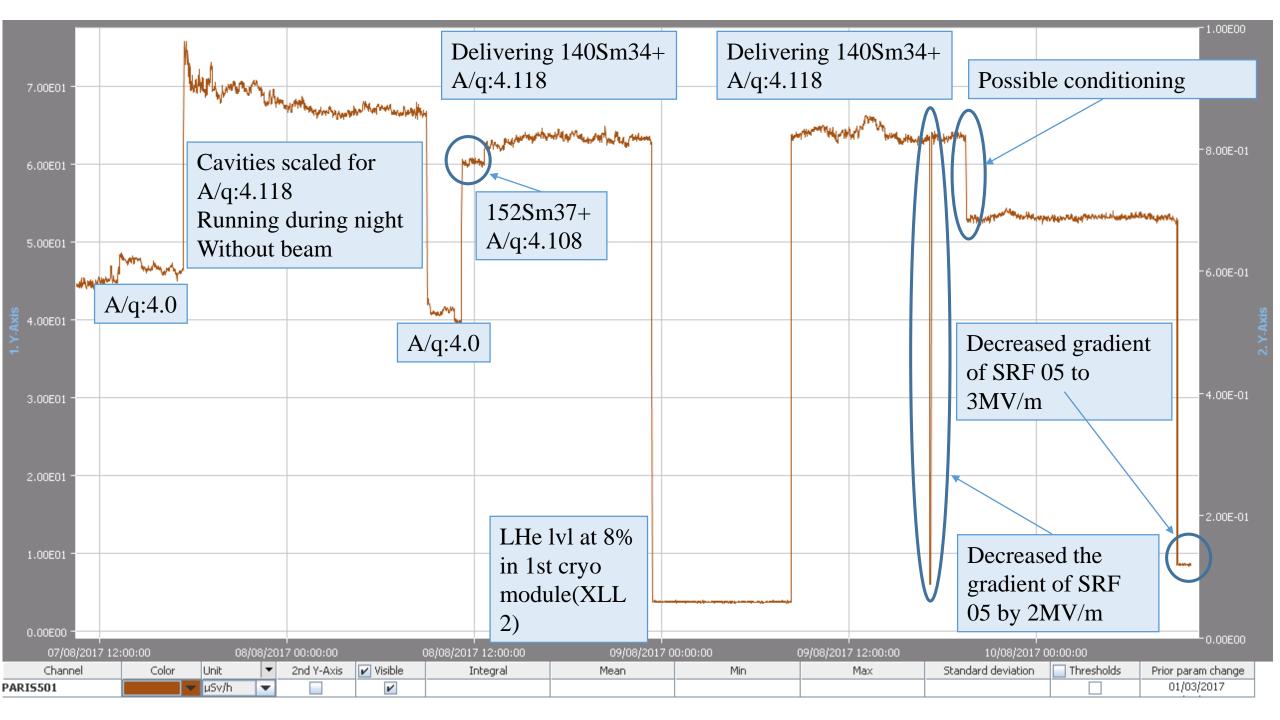
Lefteris Fadakis

Root Cause Fault Time Distribution



LHe level drop in cryo module 1 (XLL2)

A Series Of Unfortunate events



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✔ Automatic Resize	

Issue:

1. LHe is supplied by a main valve (2CV960) which is fixed so that the pressure and cold box is stabilized by limiting the available flow.

On Monday, we very slightly increased the field of SRF05, which changed the power dissipation in the CM by only \sim 3-4W. Due to the strict margin of the valve the system could not provide enough cooling power.

2. No one realised the dropping level of LHe until it reached 8% and the LLRF amplifier interlock kicked in.

Solution:

1. Cryogenic operators adjusted the upper limit of the main valve 2CV960 from 33% to 36% to increase the margin of regulation.

2. They corrected the issue with the alarm of the LHe level which was not working at the time.

> Apart from the issues stated above we are glad to mention that we delivered beam ahead of schedule.

> According to our physics coordinator, for this year, this was the first fully completed experiment for HIE-ISOLDE.