### Modification of thresholds on cold magnets

#### (in light of results of Quench Test)

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### **Present situation**

- We have 2 types of thresholds:
  - for the first detector after interconnection
  - for the middle detector and after second interconnection
- We have 6 families: THRI.AR.B1.1\_MQ, THRI.AR.B2.1\_MQ THRI.AR.B1.2\_MQ, THRI.AR.B2.2\_MQ THRI.AR.B1.3\_MQ, THRI.AR.B2.3\_MQ

# Preliminary conclusions from the Quench Test

- For vertical loss at 450 GeV the quench occurred 2.9 below expected for type 2 threshold (THRI.AR.B2.3\_MQ family) in RS09 (1.31 s)
- For vertical loss at 3.5 TeV the quench occurred factor 2.0 below expected for type 2 threshold (THRI.AR.B2.2\_MQ and THRI.AR.B2.3\_MQ families) in RS10 (5.2 s).



## Proposal 1

- Change only thresholds of the second type (4 families)
- Decrease RS08-RS12 by factor 3
- Keep mf = 0.3



# Proposal 2

- Change only thresholds of the second type (4 families)
- Decrease RS08-RS12 by factor 3
- Increase RS05 by factor 3 (for UFOs and we had no quenches there yet)
- set mf = 0.1, as initially

