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SC characterization at IEE Bratislava
Sample Batches investigated since the last meeting:

prepared at Siegen Uni:

- films on Si substrates – Nb, NbN, double layers NbN/Nb – 3.8.2022 series
  27 samples, finalised end-October

Closest plans:

Helium level in VSM setup is low – warm-up in 1 week
Standard meas. no more possible – issues with low temperature stability (max time ~30min)

Re-start in February
Flux jumps observed for many NbN/Nb, for some Nb
Mag Loops – 3.8.2022series Siegen

All samples, raw loops (4.2K)
Normalised

Virgin curves

*Normalised to Max*

Upper loop branches

**black symbols – Bulk Nb**

**NbN/Nb**

* samples w/o flux jumps in virgin
Virgin curves

Normalised to Max

Upper loop branches

black symbols – Bulk Nb

Nb

samples w/o flux jumps in virgin
Virgin curves

Normalised to Max

Upper loop branches

NbN
Thanks for your attention
Mag Loop – Bulk Nb monocrystalline, CEA

“raw” Loop (absolute $m$) (at 4.2 K)