

**Universität
Stuttgart**

Progresses on **PETER** Project

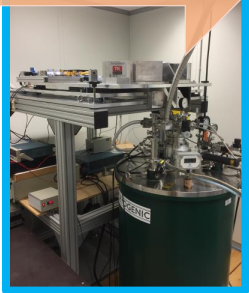
UNISTUTT

29th of April 2021

The RoadMap

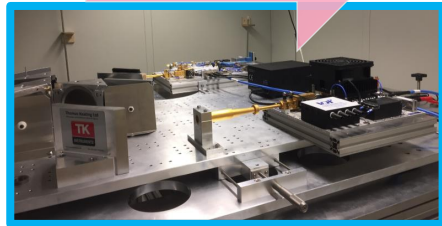
22-26th
March

Adjusted
Magnet-
Optic Table
position



29th
March –
2nd April

Installing
new MW
source and
detector



29th
March –
2nd April

Alignment of
the Quasi-
Optic Table
(with roof
top mirror)



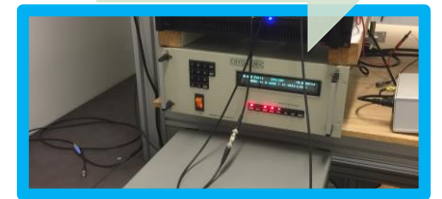
7-8th
April

Cool Down
Magnet



9th April

Test of the
new Magnet
Power
Supply



Since
April

Test of
Control
Program



12-20th
April

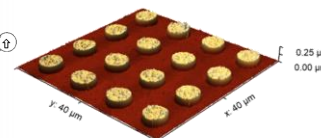
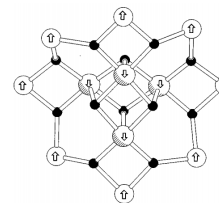
Test of
AFM at
low T and
High B

Martin's
presentation



21-28th
April

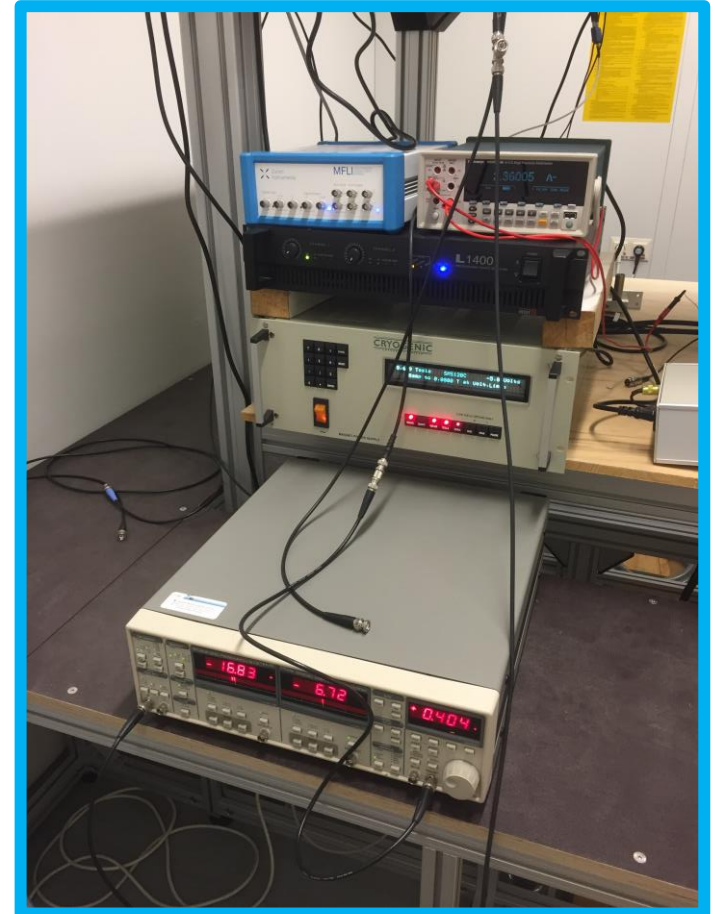
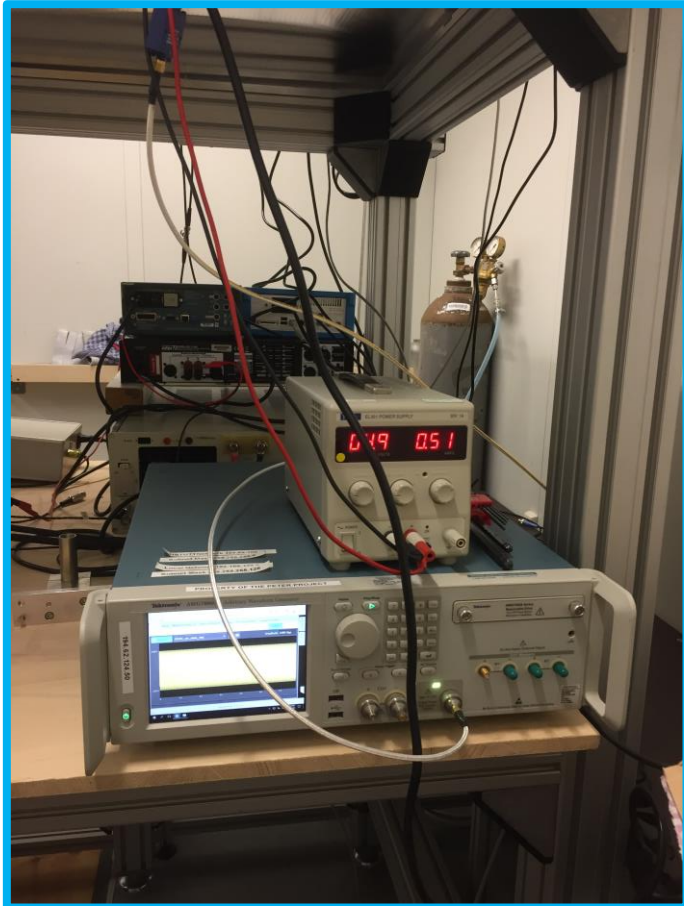
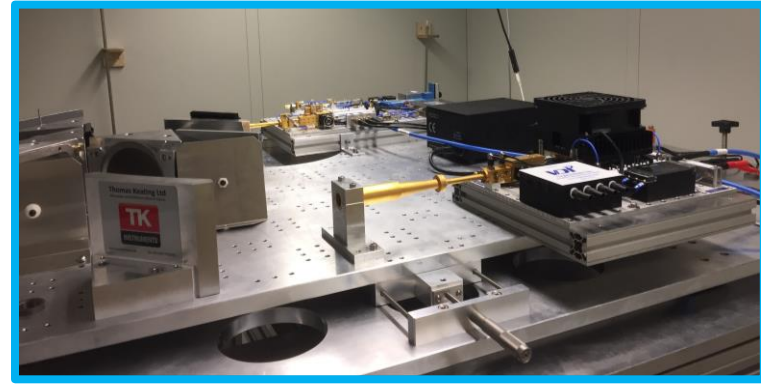
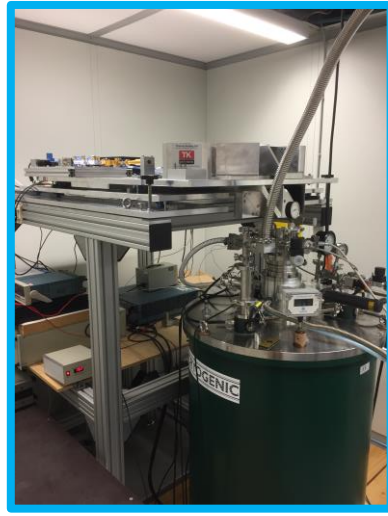
Test of HF-
EPR with
NiFe and
Mn12
samples



29th
April

PETER
MEETING

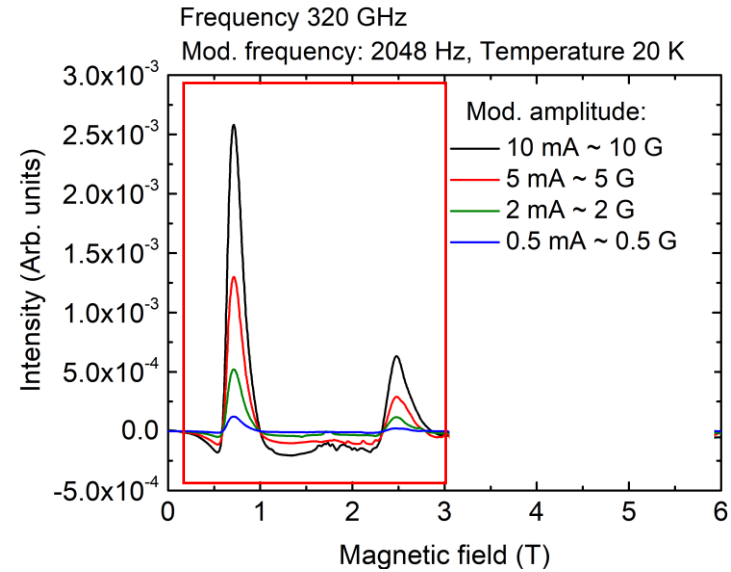
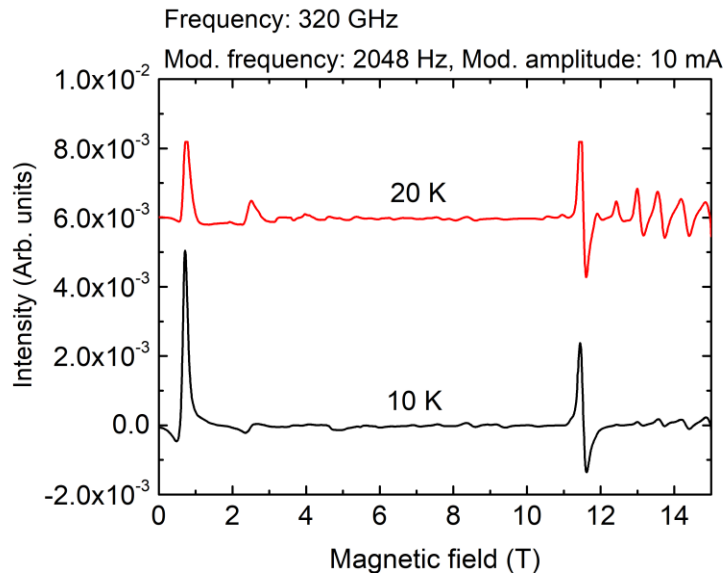
PETER LAB



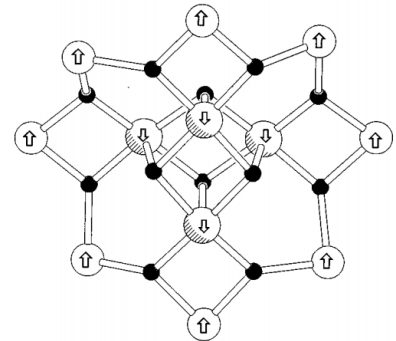
TESTS of EPR on PETER setup



HF EPR SETUP

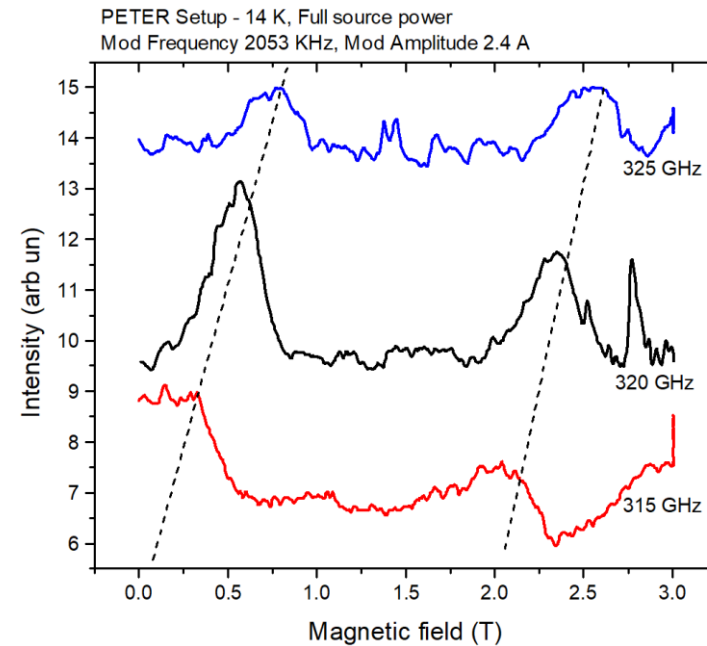
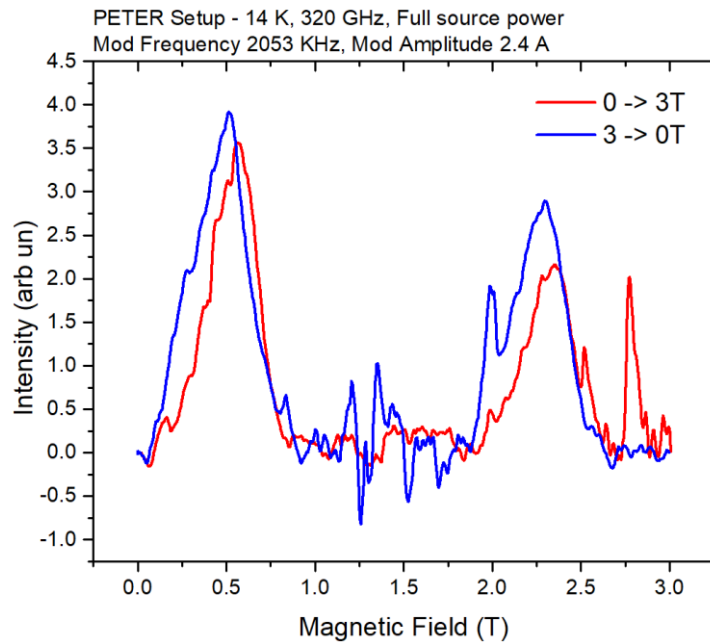
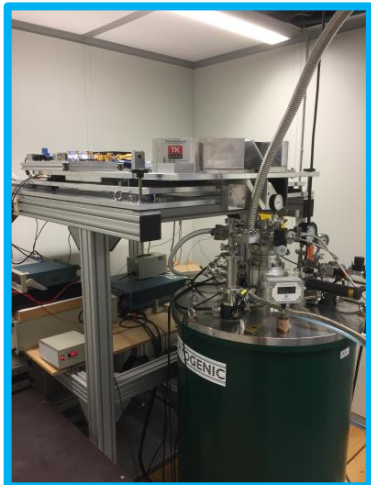


Mn12ac



Phys. Rev. B 56, 8192 (1997)

PETER SETUP



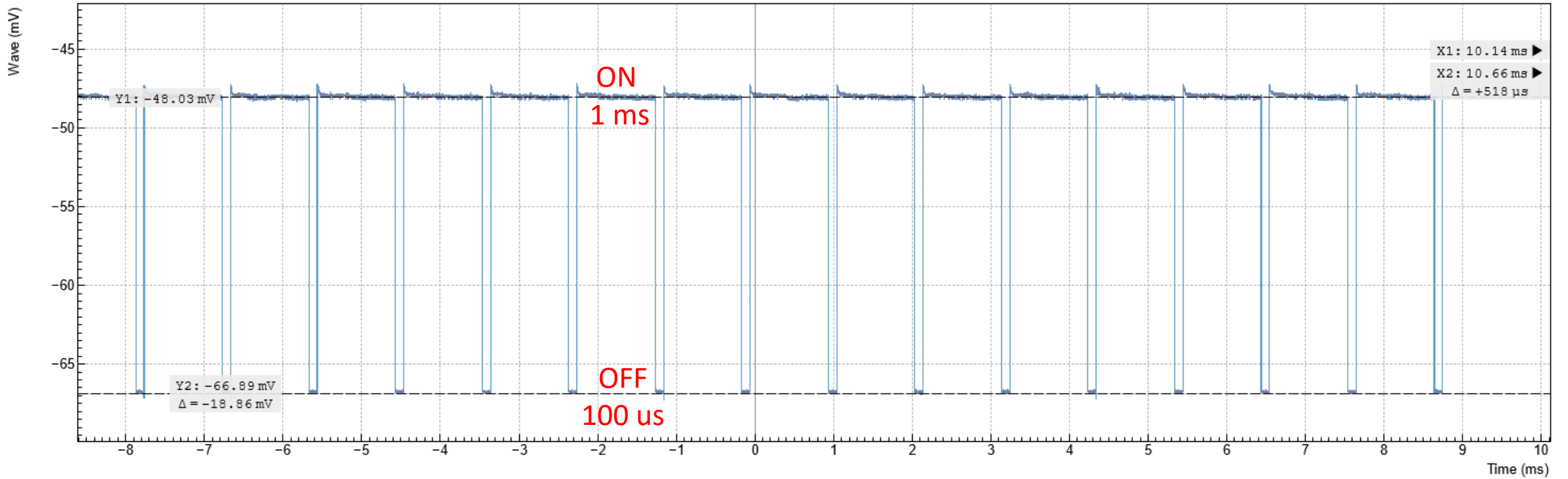
TESTS of EPR on PETER setup



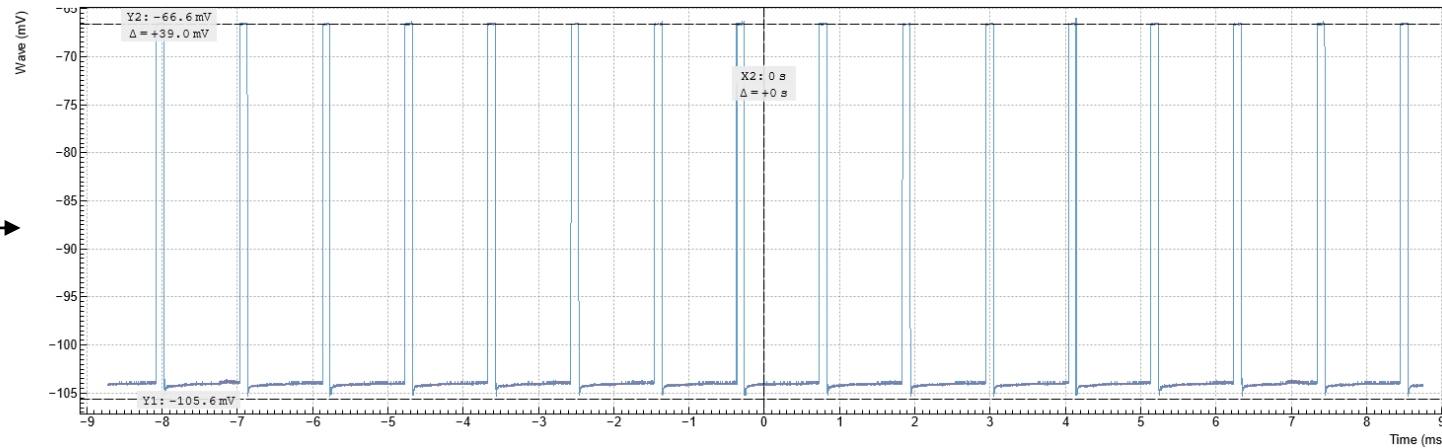
Zurich Instruments AG
Device: MFLI DEV3414



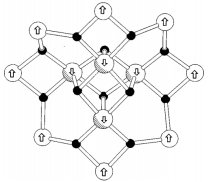
Version: 20.07.2325
Settings: default_ui



By changing Z position
with the piezo scanner →

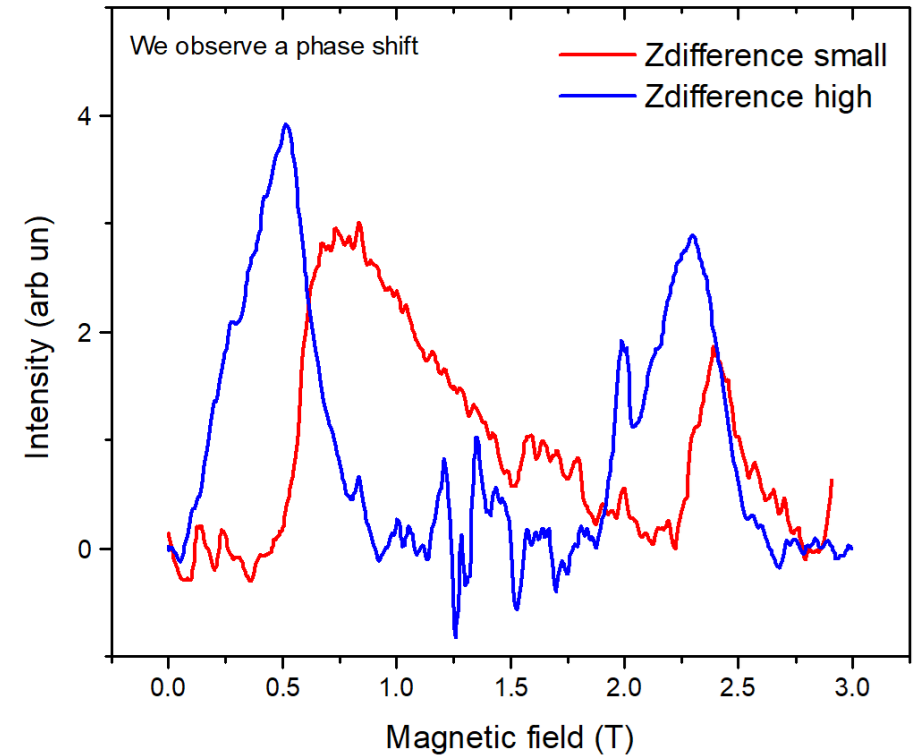
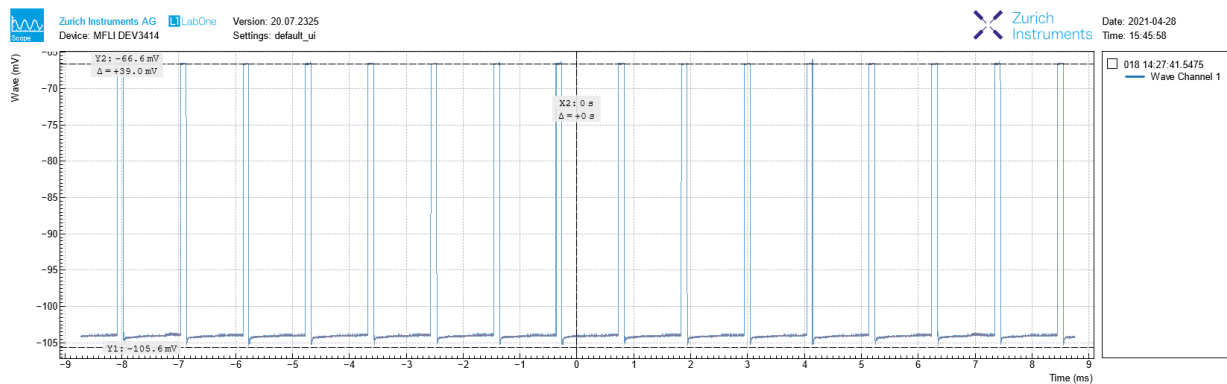
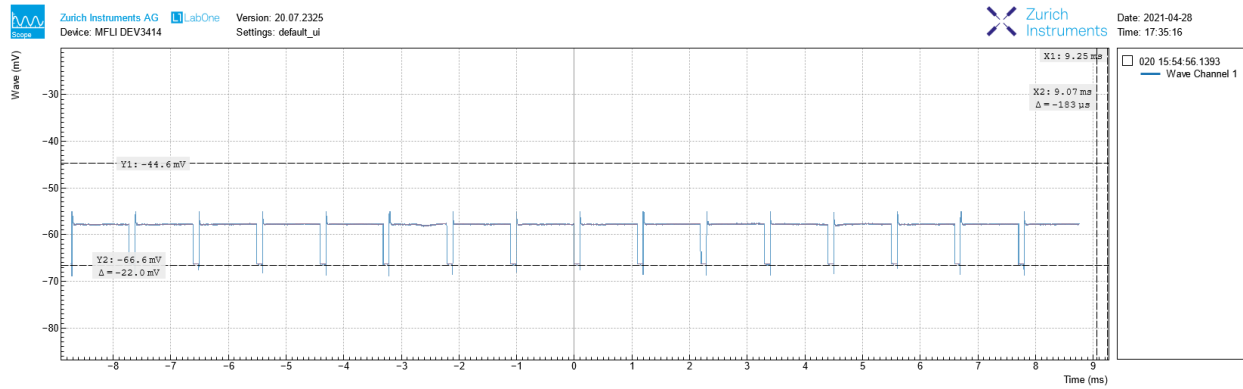
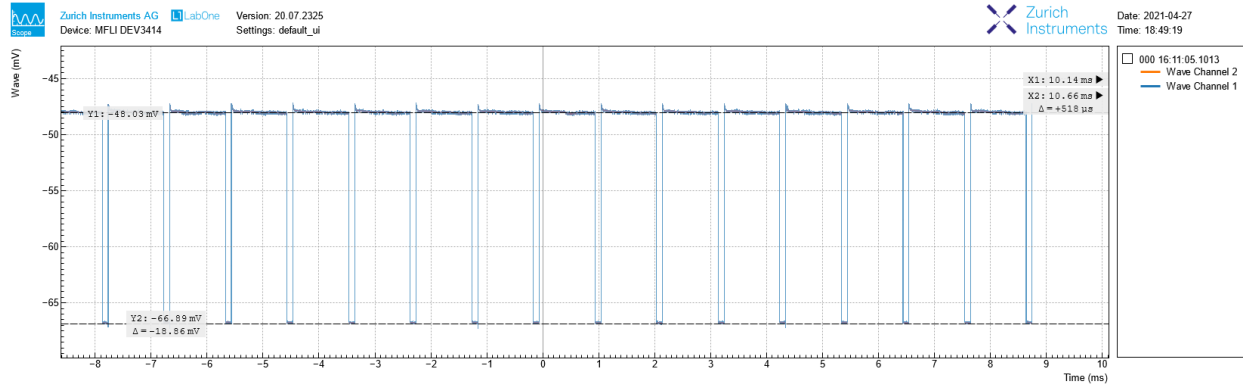


TESTS of EPR on PETER setup



Mn12ac

PETER Setup - 14 K, 320 GHz, Full source power
Mod Frequency 2053 KHz, Mod Amplitude 2.4 A



Next week...

Alisa is coming!



Program will be ready



Bartosz Czaban

