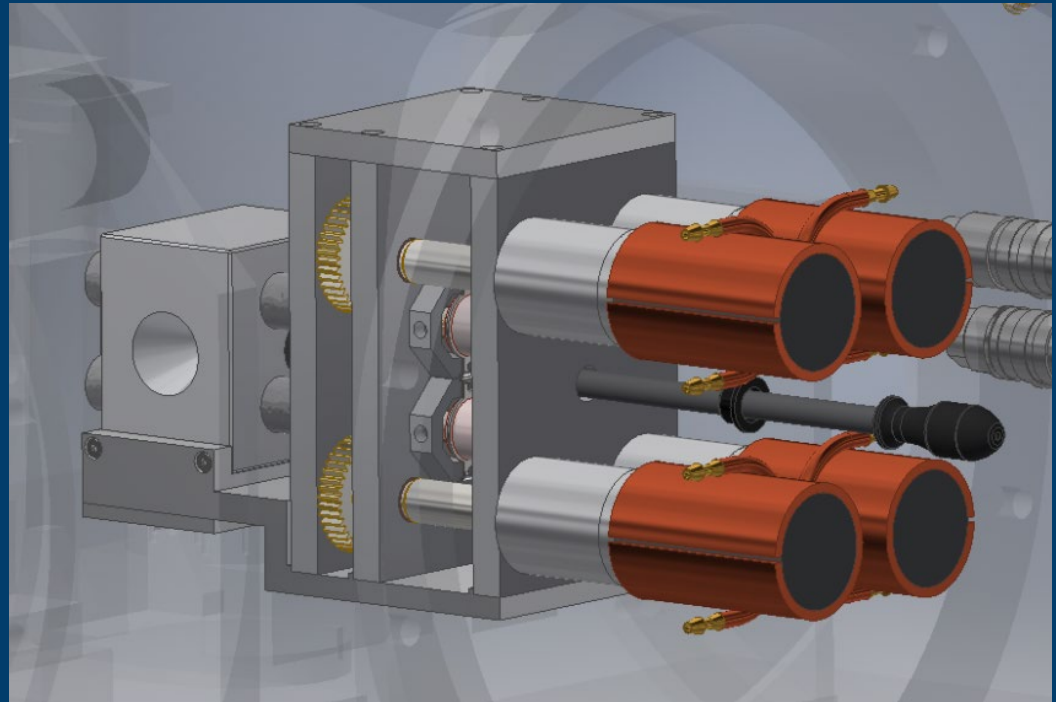


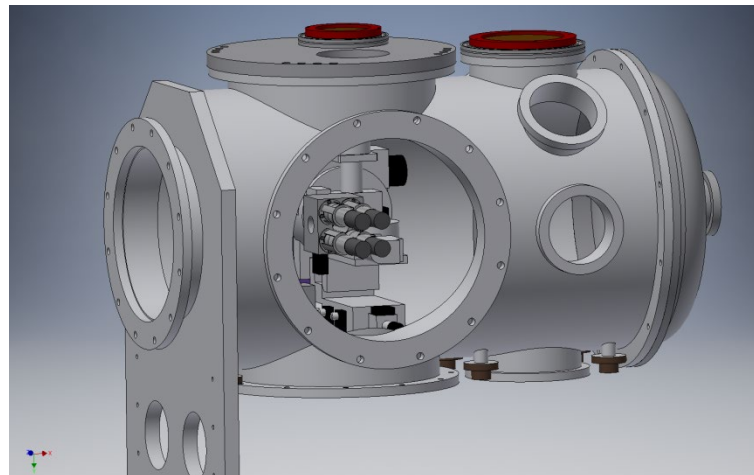
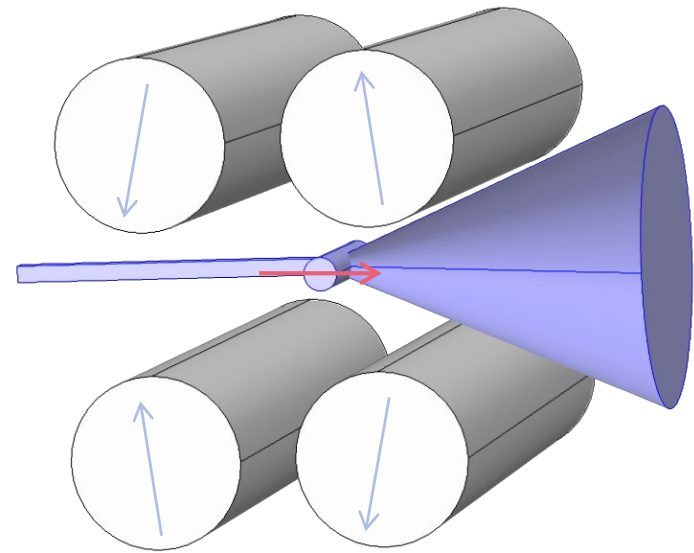
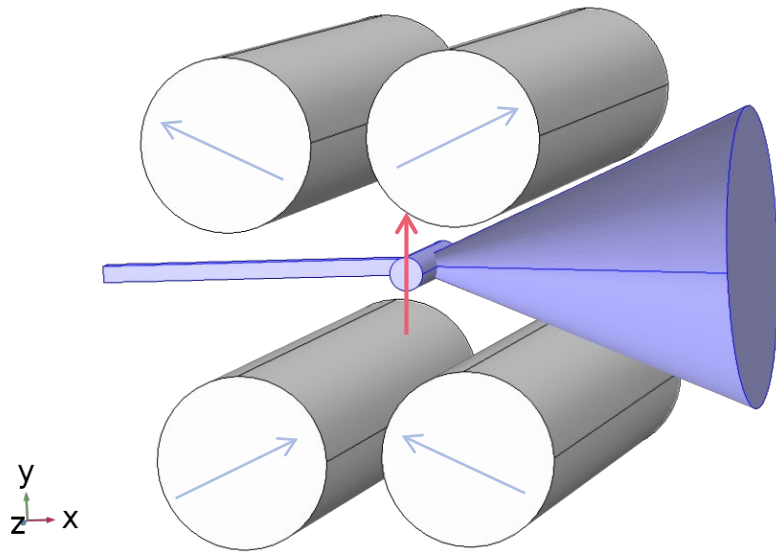
HALBACH ARRAY

27.02.2023

ANDREAS MÖLLER



HALBACH ARRAY

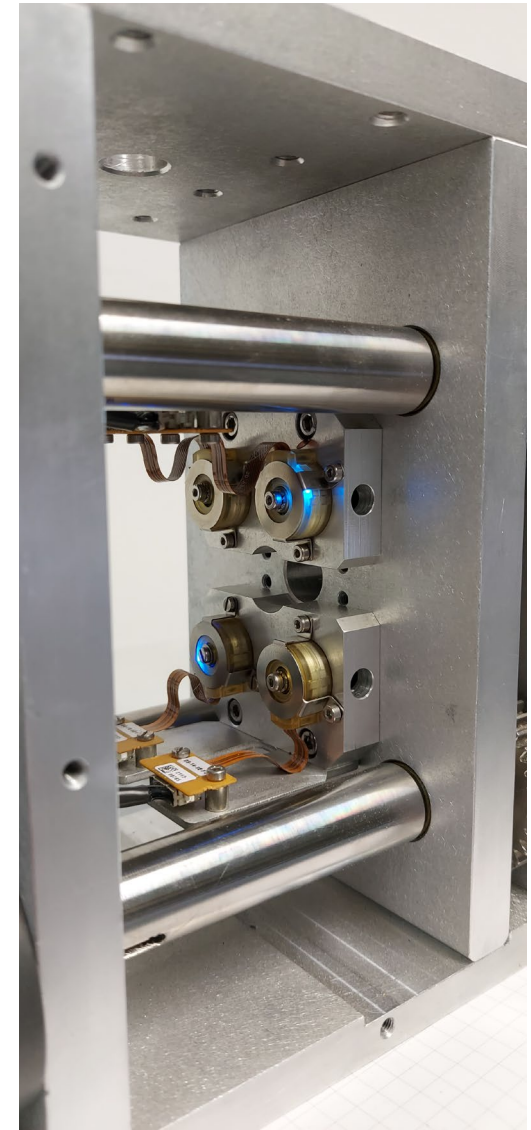


POSITIONSERFASSUNG

NETZER DS-16

Winkelauflösung: $\pm 0.025^\circ$

Protokoll: SSI



STEUERUNGSELEKTRONIK

Planung:

- Phytron TM StepDrive

Aktueller Stand:

- Siemens F-TM ServoDrive HF



ENTWICKLUNGSSOFTWARE

MainWindow

M1_

Start

Stop

Absolut

Set Home

0

SetTarget

AxisError

Busy

Homed

PosBcd

Velocity

tar. Position

act. Position

Toggle

Toggle

Toggle

Toggle

SetTarget

Error Ack

1

0

13,71941

M2_

Start

Stop

Absolut

Set Home

0

SetTarget

AxisError

Busy

Homed

PosBcd

Velocity

tar. Position

act. Position

Toggle

Toggle

Toggle

Toggle

SetTarget

Error Ack

1

0

164,29195

M3_

Start

Stop

Absolut

Set Home

0

SetTarget

AxisError

Busy

Homed

PosBcd

Velocity

tar. Position

act. Position

Toggle

Toggle

Toggle

Toggle

SetTarget

Error Ack

1

0

146,6696

All M4_

Start

Stop

Absolut

Set Home

0

SetTarget

AxisError

Busy

Homed

PosBcd

Velocity

tar. Position

act. Position

Toggle

Toggle

Toggle

Toggle

SetTarget

Error Ack

1

0

25,917125

M1_

Start

Step

End

0

10

360

running

Steps:

0

Next Step:

0

Start

Stop

Restart

M2_

Start

Step

End

0

10

360

running

Steps:

0

Next Step:

0

Start

Stop

Restart

M3_

Start

Step

End

0

10

360

running

Steps:

0

Next Step:

0

Start

Stop

Restart

M4_

Start

Step

End

0

10

360

running

Steps:

0

Next Step:

0

Start

Stop

Restart

Add to Graph Meas

+ simul

Add to Graph Sim

1

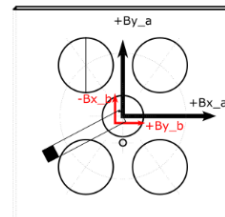
only simul

Button

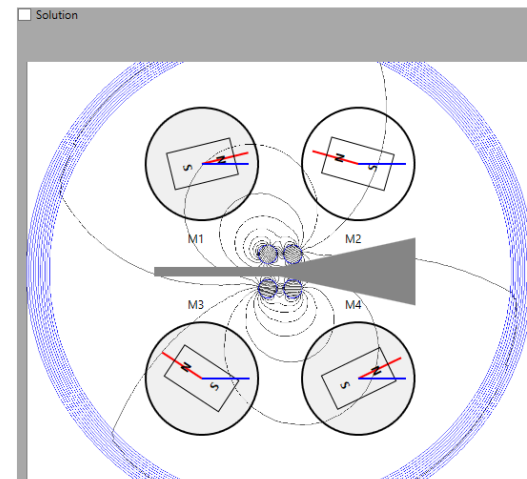
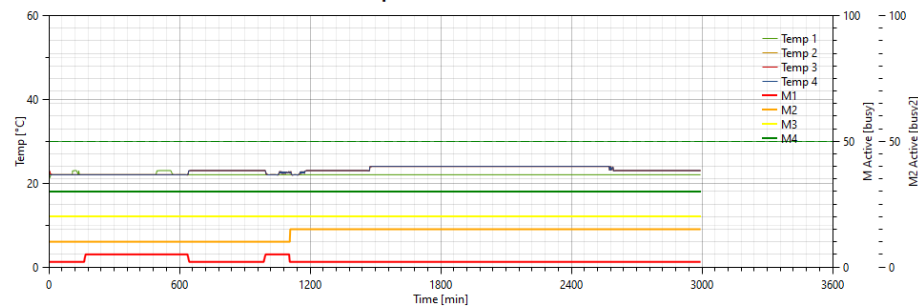
Left

Right

Center



Temperatur und Status



Connect Teslamer

192

168

2

167

5024

Button

Magnitude:

Label

X:

Label

Y:

Label

Z:

Label

Add Test Data to Chart

Connect PLC

192

168

178

180

Get Axis

CPU:

Halbach\$low_PLC_tes

Model:

CPU 1512SP-1 PN

CycleTime:

x ms

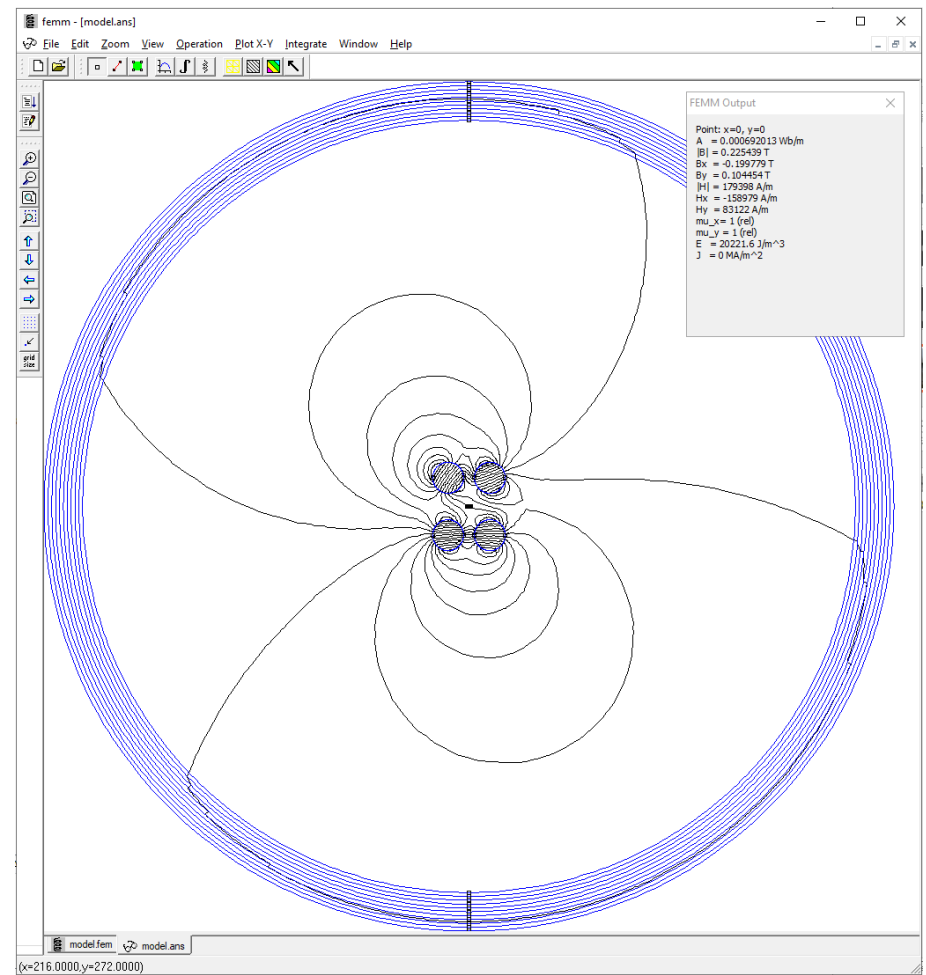
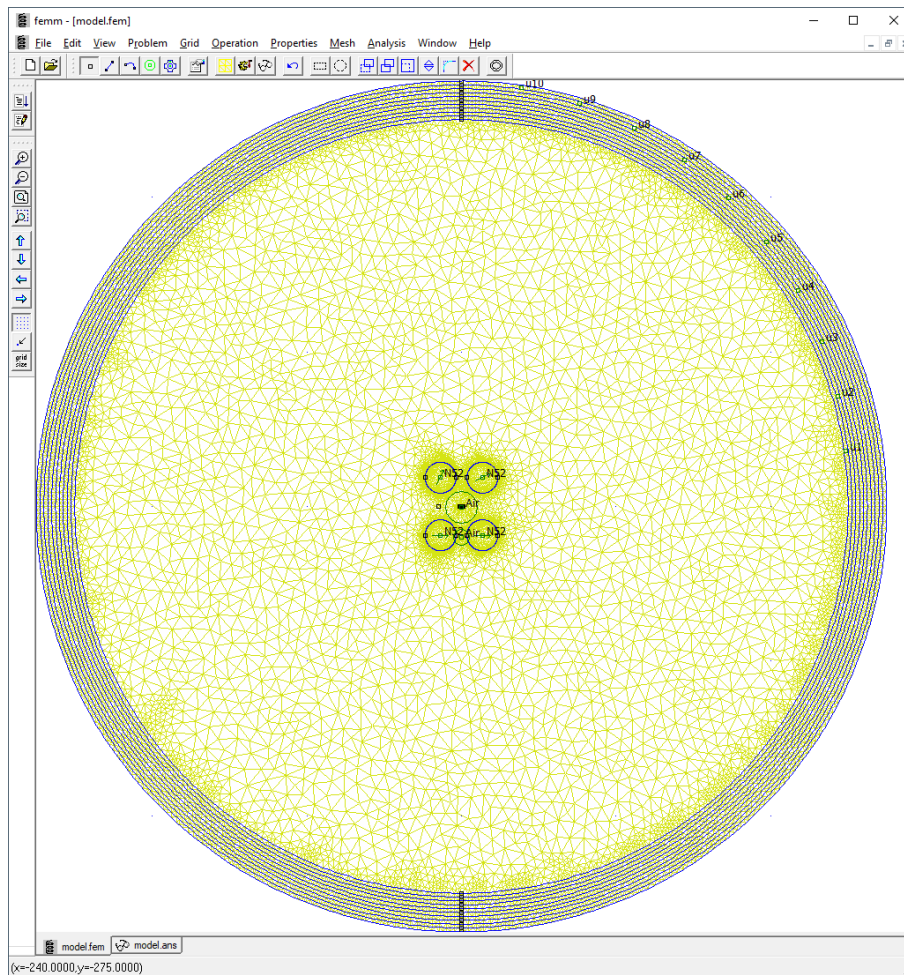
Auto-Scroll

Clear

Pause

ID	Level	TimeStamp	LoggerName	Message
1	1	27-02-2023 10:07:56.235	PLC_Con	Connected: true Module: CPU 1512SP-1 PN

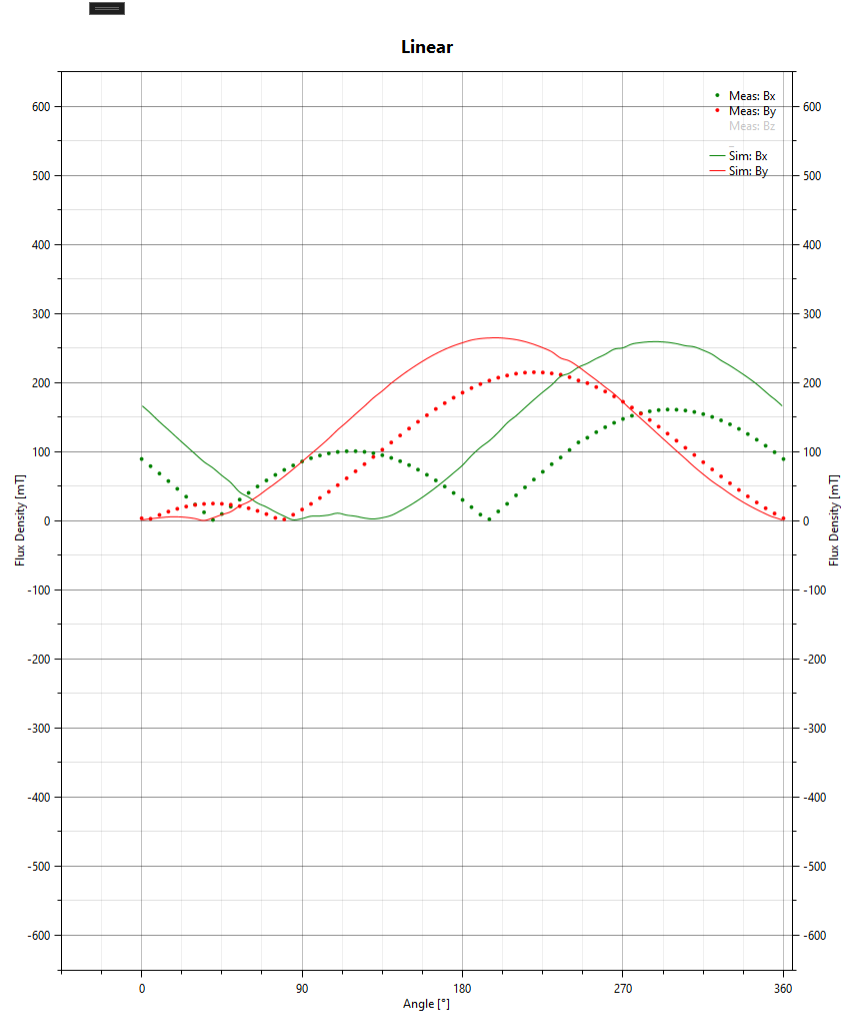
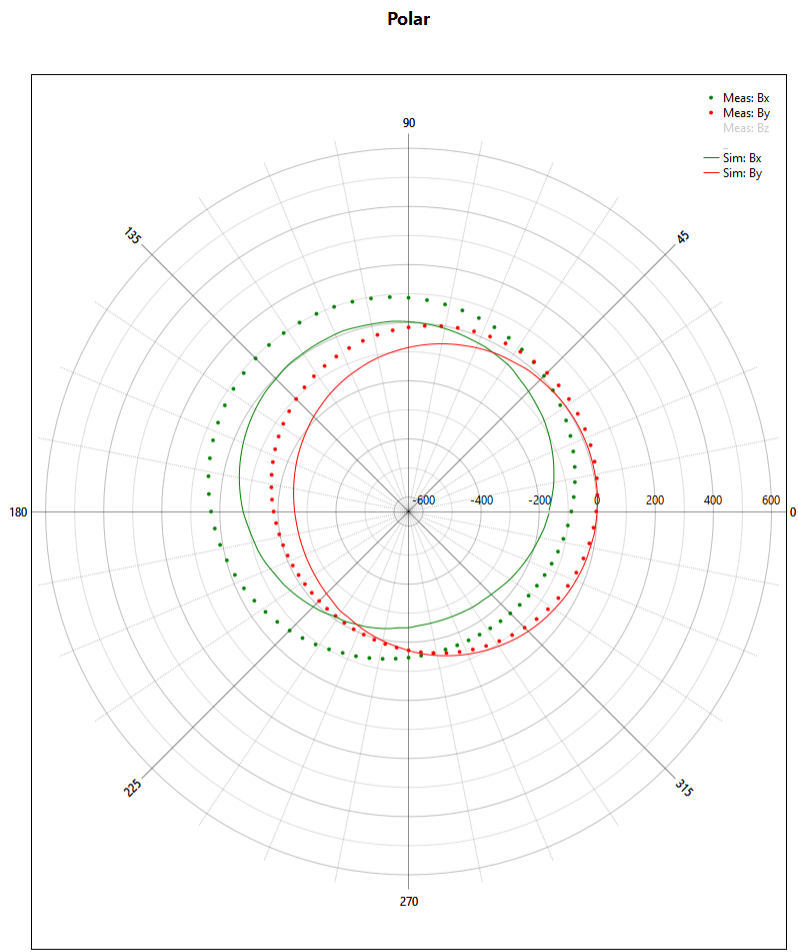
SIMULATION



JUSTAGE / KALIBRIERUNG

z.B. mit FW BELL 8030 Teslameter

Charts



ChartData
Clear
Button
save
Load
Test data

Axis	Max Ang	Max Val	Min Ang	Min Val

AUSBLICK

- Steuerungssoftware
- Geber- und Motorverkabelung
- Justage, Nachkalibrierung Einbindung in Nicos