

Universität Stuttgart



## UNISTUTT 19<sup>th</sup> of March 2021

### NiFe discs test sample:

Sample layout:

# NiFe discs (D=5 $\mu m$ ), periodicity of 10 $\mu m$ on fused silica substrate



TT 1251

Surface coverage of NiFe:  $\pi/16 \approx 20$  %

11.0

11.5

Magnetic field (T)

12.0

12.5









### HFEPR measurements of NiFe disks





### NiFe discs test sample:

Sample layout:

D1 = 9.96 um

WD: 8.99 mm

Det In-Be

SEM HV: 30.0 kV

NiFe discs (D=5  $\mu m$ ), periodicity of 10  $\mu m$  on fused silica substrate

Results:

- 1) We have HFEPR signal at 0 T and g=2;
- 2) The signal comes from NiFe material;
- 3) The signal is independent from the disks shape



COMING SOON



### Test of the new Heterodyne Source/Detector at HFEPR quasi-optic setup



- 1) Tests of the source & detector without a quasi-optic setup;
- 2) Tests using the HFEPR quasi-optic setup and Mn12 as standard.



### Test of the new Heterodyne Source/Detector at HFEPR quasi-optic setup

#### Mn12ac



#### Previously measured at HFEPR setup





