



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.

HZB Helmholtz
Zentrum Berlin

QPR Status @ HZB

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7th WP9 meeting

1./2. 12. 2022, CEA Paris



QPR status @ HZB

- System ready for measurements
- New PostDoc position in BMBF NOVALIS project to continue QPR work
- Only few bulk-Nb samples available
→ purchase of new samples planned, but long lead time
- First bulk-Cu prototype available
 - Production in-house at HZB
 - No surface treatments so far
 - Material and tooling for 10 samples in house

QPR Sample overview (ARIES + iFAST)

Bulk Nb substrate

Sample	Location	
A1	LNL INFN	
A2	HZB	
A3	HZB	(failed EP)
A4	DESY	
A5	CEA	

Cu/Nb substrate

Sample	Location	
B1		Broken
B2	HZB	SIS: NbN / AlN / Nb 180 nm / 35 nm / 4 μm
B3	HZB	S-S: NbN / Nb
B4	INFN	Broken
B5	CERN	

Bulk Cu substrate

Sample	Location	
C1	HZB	No surface treatment yet



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