***Meeting Minutes***

***110th SRF R&D Meeting***

**Date:** Wednesday, January 25th, 2022

**Participants:** Detlef, Ricardo, Elmar, Marc, Hans, Lea, Jonas, Rezvan, Christopher, Manuela, Thorsten, Wolfgang, Jan-Hendrick, Mateusz

**Slides:** All presentations and the meeting minutes are available on INDICO

<https://indico.desy.de/indico/category/422/>

**I Quick Status Update for SRF23**

Detlef: Abstract contribution SRF is open -> first to Detlef to discuss who has which contribution

Hans: Don’t forget the PUBDB contribution before sending the abstracts!

**II First cold measurement of the QPR (Pres. By Ricardo)**

Marc: You said the decay time measurement works for 2K, but works also for other temperatures? -> Yes, it works for all T starting from 2K.

-double peak of spectra for Q2 on p. 37 -> Pole-shoes are connected to the top of QPR which makes it a pendulum possibly causing vibrations. This could be related to micro-phonics

Wolfgang: General comment, please put errors in every figure!

Hans: Take care of digits of numbers presented in, for example, tables (don’t put too many)!

Marc: p.36 is there a systematic offset between T sensors? T1 and T3 for example match very well which might me a systematic corr. -> Need to check accuracy again, all of the T-sensors are recorded with the same device at the same time and were checked by C. Müller (he measured the same resistance for all of the T-sensors) before the test.

Jan: Can you already assume something about the microphonics? For some modes this could be a cause? -> We wanted to obtain data from the microphonics but it was not possible for this test. So far only got data reported by HZB, which showed the effect of microphonics and that they had to do some post-processing to obtain the frequency. Faster snapshots could help to get an idea; comment by Marc: We run in CW which HZB or CERN can’t do and we observe less vibrations.

Marc: p.38 You could check the factor related to the skin depth between the different modes for the frequency above Tc to see if they match for the linear frequency dependency.

Next meeting:

Discussion about subsequent Nb furnace runs

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| **Abbreviations:** Christopher Bate (CB), Serena Barbanotti (SB), Thorsten Büttner (*TB*), Getnet Deyu (GD), Alexey Ermakov (AE), Lukas Ebeling (LE), Rezvan Ghanbari (RG), Isabel Gonzales (IG), Vladimir Gubarev (*VG*), Birte van der Horst (*BvdH*), Wolfgang Hillert (WH), Jens Iversen (*JI*), Kay Jensch (*KJ*), Daniel Klinke (DaK), Denis Kostin (*DK*), Ricardo Monroy-Villa (RMV), Carsten Müller (*CMu*), Andrea Muh (*AM*), Detlef Reschke (*DR*), Helmut Remde (*HR*), Jörn Schaffran (*JSch),* Manuela Schmökel (*MS*), Jacek Sekutowicz (*Jacek*), Lea Steder (*LS*), Nicolai Steinhau-Kühl (*NSK*), Alexey Sulimov (*ASu*), Jan-Hendrik Thie (*JHT*), Lennart Trelle (LT), Elmar Vogel (*EV*), Nicholas John Walker (*NJW*), Hans Weise (*HW*), Marc Wenskat (*MW*), Mateusz Wiencek (*MWi*), Jonas Wolff (JW)  | **Abbreviations:** Andrea Bellandi (ABe), Christopher Bate (CB), Serena Barbanotti (SB), Reinhard Brinkmann (*RB*), Thorsten Büttner (*TB*), Arti Dangwal-Pandey (*ADP*), Alexey Ermakov (AE), Lukas Ebeling (LE), Isabel Gonzales (IG), Vladimir Gubarev (*VG*), Birte van der Horst (*BvdH*), Wolfgang Hillert (WH), Jens Iversen (*JI*), Kay Jensch (*KJ*), Daniel Klinke (DaK), Denis Kostin (*DK*), Youfeng Liu (YL), Lutz Lilje (*LL*), Chen Luo (CL), Ricardo Monroy-Villa (RMV), Carsten Müller (*CMu*), Andrea Pörschmann (*AP*), Detlef Reschke (*DR*), Helmut Remde (*HR*), Kay Rehlich (KR), Jörn Schaffran (*JSch),* Manuela Schmökel (*MS*), Jacek Sekutowicz (*Jacek*), Sven Sievers (SSv), Guilherme Semione (*GS*), Lea Steder (*LS*), Nicolai Steinhau-Kühl (*NSK*), Alexey Sulimov (*ASu*), Jan-Hendrik Thie (*JHT*), Elmar Vogel (*EV*), Nicholas John Walker (*NJW*), Hans Weise (*HW*), Marc Wenskat (*MW*), Mateusz Wiencek (*MWi*)  |

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