# Peter Status meeting – webex – 28. 1. 2021 14:00

**Attending:**

Božena Čechalová, Alisa Leavesley, Dominik Bloos, Elizaveta Nikulina, Joris van Slageren, Martin Hrtoň, Lorenzo Tesi, Martin Konečný, Monika Goikoetxea, shu Chen, Tomáš Šikola, Peter Kepič, Vlastimil Křápek, Zdeněk Nováček, Richard Wylde, Rainer Hillenbrand

## Agenda:

### Management, dissemination and communication

BČ:

* due deliverables and milestones (see doc attached);
* Workshop for industrial partners – TK will make the decision in March;
* Videos – USTUTT videographer is not replying back; enquiries about pricing had been sent out on the Czech side

Lorenzo Tesi:

* publication is submitted, waiting for review, not about to go under a certain impact factor

Joris van Slageren:

* presentations are planned on various online international meetings and workshops

Tomáš Šikola

* Related news about publishing a general-themed article in EU Research
* asked permission to publish results on conferences in summer (ICN+T Vancouver), Advances in Magnetics (Modena, Italy), etc.

Monika G.:

* shared details on the upcoming workshop – speakers are confirmed, titles of talks mostly in; program is mostly fixed (see presentation)
* Zoom will be used; registrations needed
* Links to registration etc. Will be sent to BČ to be put on the website

Rainer H:

* talks should be clustered according to topic to make them easier to follow (theory, microscopy etc.). In the beginning, it should be explained how each topic ties into the PETER project.
* We should do a flyer with invitation to colleagues – AL: suggested International EPR society TŠ: suggested magnetism networks, JvS: warned against flooding of participant (and porn bots)
* AL: suggested that start at 9:30 means 8:30 in UK which works for them, 9:00 would be too early.

### Progress in spectroscopy – experiments

Lorenzo Tesi: further simulations on antenna arrays, no special outcomes, see presentation

Martin Hrtoň: Oscillator model - simulation of the influence of the antenna tip size on the EPR signal and lateral resolution, see presentation

### Progress in microscopy

Martin Konečný – measurements

* Akyiama probes, also tuning forks probes (TF) made in Brno – MK was struggling; so he took the TF to Brno and measured them on LiteScope (Nenovision) – images were nice, no problem with TF
* TF taken back, experiments continued in Stuttgart
* Amplitude vs distance measurements – interpretation not clear; additional measurements planned
* RH: the drops shown in graph (see presentation) could be due to electrostatic forces (grounding?) MK: grounded – it’s default setting; trying to measure at the lowest driving voltage possible
* Temperature sensors had been installed, seems to be working well

Peter Kepič – samples from Brno

* See presentation, silicon and silica substrates; NiFe discs, samples + references sent to USTUTT
* Further samples will be prepared in Brno after meeting with Jan Čechal

### Present states on tips preparation

TŠ apologised for delayed fabrication of tips for NGU, newly fabricated samples should be sent in the next week (Tomáš Šamořil should be in contact with Elisaveta)

### Signal modulation

Alisa L.:

* potential visit in the second week of February
* Dominik was supposed to test a second version of the modulation coil to reduce the heating effects

**Next meeting:**

**19. March (Friday), 14:00**