Meeting Recap XIII
November 2, 2017

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Version

- September 28, 2017: V1.

Present at the meeting

- Valentin Besse.
- Vladimir Vlasov.
- Anton Golov.

Progress

Tasks	Status
Figures/Tables	Figures are almost done. We use figures from Rome's presentation.
Summary statements	To be done
Scientific audience	We target PRL
Materials and methods	To be done
Re-evalutate data	To be done
Results	To be done
Discussion/Conclusion	To be done
References	To be done
Introduction	To be done
Title	Acousto-magnonic cavity with exchange magnon in the THz regime
Conclusion paragraph	To be done

Table 1: Sum up of the tasks and the progress. The tasks' division follows the algorithm describe in Fig. 1 of [1]

Agenda

During this meeting we discuss about:

1. Rome presentation.

[1]Author of the report

2. Works to be done.

3. Suggestions.

1 Works to be done

VALENTIN will use the following pictures from Rome's presentation:

- p.11, a temporal trace but in the case of a sample with 30 nm of thickness.
- p.22, a spectrum with the corresponding dispersion curves but for phase and frequency matching conditions.
- p.26, spectra for phase and frequency matching conditions for different number of acoustic pulses.
- p.30, spectra for phase and frequency matching conditions for different type of acoustic pulses.
- p.36, spectra for phase and frequency matching conditions for different values of the damping.

2 Suggestions

VALENTIN thinks that there is no need of supplementary simulation for the paper at the moment. So VALENTIN suggests that Anton should start to work on simulations:

- with magnetic anisotropy. Do we have paper about it in nickel ? I found two papers[2][3]
- or other type of anisotropy.
- or with a varying magnetoelastic effect. Is this realist ? Is there any paper about it ?

What do you think about it ?

Next meeting

The next meeting will be Monday November 6th at 2:00 pm (CET).

[2]Magnetic Anisotropy in Single-crystal Nickel Films
[3]Magnetic Anisotropy of Nickel Films Produced by Chemical Reduction

List of abbreviations

Landau-Lifschitz-Gilbert	$\Longrightarrow$	LLG
Ferromagnetic resonance	$\Longrightarrow$	FMR

References

[1] T. R. O'Connor and G. P. Holmquist, "Algorithm for writing a scientific manuscript," *Biochemistry and Molecular Biology Education*, vol. 37, no. 6, pp. 344–348, 2009.