

Meeting Recap XVI

March 1, 2018

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Version

- February 20, 2018: V1.

Present at the meeting

- Valentin BESSE.
- Vladimir VLASOV.
- Anton GOLOV.

Agenda

During this meeting we discuss about:

1. Implementation of non-zero initial condition (see Sec. 1).
2. Influence of strain's front to exchange interaction (see Sec. 2)
3. Travel of Valentin to Syktyvkar after Saint-Petersburg Symposium (see Sec. 3)

1 Implementation of non-zero initial condition

Anton shows illustration of non-zero initial condition that he can use to study the impact of strain's dependence of the exchange interaction on spin wave dynamics (see Fig. 1). **Anton** will design the non-zero initial condition and he will keep only the magnons frequencies. **Anton** will do the simulations and present his result next Tuesday (March 6th).

¹Author of the report

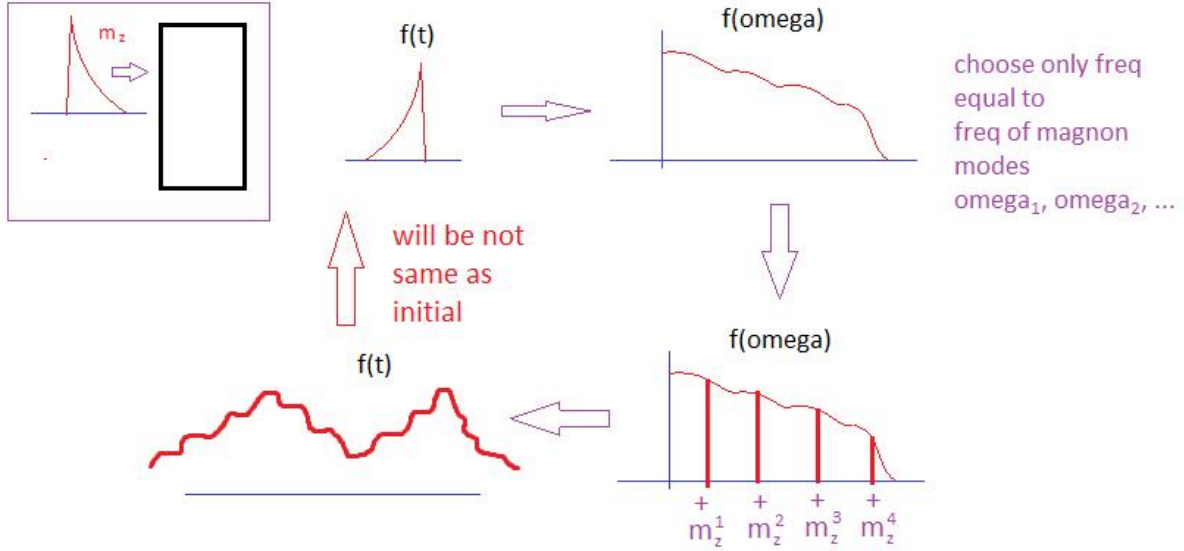


Figure 1: Anton's illustration of non-zero initial condition.

2 Influence of strain's front to exchange interaction

Since we use an integral approximation to the strain dependence in our system of equations, **Vladimir** explains that our model does not include the influence of the strain's front (exception when the strain enters or exits the film). **Vladimir** suggests that we have a reflection on how could we include this effect in our model.

3 Travel of Valentin to Syktyvkar

Vladimir proposes to **Valentin** to go to Syktyvkar after Saint-Petersburg Symposium. **Valentin** may arrive to Saint-Petersburg on Sunday June, 3rd and leave on Saturday June, 9th (or Sunday June 10th). **Vladimir** proposes that Syktyvkar pay for **Valentin**'s hotel and food expense. **Valentin** will leave Syktyvkar on Saturday June, 16th.

Valentin want to discuss this **Vasily**.

Also **Valentin** may have an issue with his arrival to Saint-Petersburg because the audition for Maitre De Conference's position will be at the end of May (and maybe at the beginning of June).

4 New tasks

The new tasks are:

- Simulation and study of the impact of strain's dependence of the exchange interaction on spin wave dynamics.

Next meeting

The next meeting will be **Tuesday March 6th at 11:30 am (CET)**.

List of abbreviations

Landau-Lifschitz-Gilbert \implies LLG
Ferromagnetic resonance \implies FMR