

## Scientific concept: information and template

### Format and content:

- 4-5 pages (might be longer), submission as a pdf file
- Submission deadline: between 2 and 5 months, depends on your familiarity with the topic, e.g. through Master-level research, and is agreed upon with the scientific coordinator upon enrolment
- Use graphical content to illustrate the concept of your project, you might also structure the text with chapters
- Introduction and motivation to the **overall research question**, including the state of the art concerning this topic in literature
- Elaborate the scientific question you want to address: What is already known, which gap in research do you want to close?
- Give a short account of the work done in the first months
- Provisional **work plan** covering the while doctoral period, and some more details on the next 6 months

### Workflow:

1. Discuss draft with your supervisor and the scientific coordinator (you can send the draft at an early state)
2. Send final version to the supervisor, mentor and scientific coordinator

Doctoral Student's Name

Supervisor's Name / Mentor's Name

Thesis Title

Date

## Scientific Concept

My doctoral studies with the topic " ..." started in February 2020. The research is carried out in the framework of the SFB/TRR 102 or is funded by e.g. DFG FOR ??? .

Give a short introduction to the specific research field, a literature overview covering the state-of-the-art of science and elaborate the scientific questions you want to address. Include the work done in the first months.

Structure your PhD project with a provisional work plan for the PhD project. Give a more detailed plan for the next six months.

### References

- [1] Chen, S., Yan, T., Fischer, M., Mordvinkin, A., Saalwächter, K., Thurn-Albrecht, T., and Binder, W.H., *Angewandte Chemie (International ed. in English)*, Vol. 56, 13016–13020, 2017.
- [2] Dolynchuk, O., Tariq, M., and Thurn-Albrecht, T., *The journal of physical chemistry letters*, Vol. 10, 1942–1946, 2019.
- [3] Evgrafova, Z., Voigt, B., Baumann, M., Stephani, M., Binder, W.H., and Balbach, J., *Chemphyschem : a European journal of chemical physics and physical chemistry*, Vol. 20, 236–240, 2019.
- [4] Shakirov, T., and Paul, W., *The Journal of chemical physics*, Vol. 150, 84903, 2019.