

SFB1170: Project Z03

– Some intro –

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Classification

- Proposal written in 2015 for the SFB1170: TocoTronics
- Extension in 2019: Sustainable Code Development and Optimizaation on modern Computer Architectures.
- Solid state physics SFB and I'm a theoretical physicist → Size: 1 Person.

Services

- Optimization: Choice of Algorithms, Choice of libraries, proper use of programming language, assembly level optimization.
- Basic Research Data Management: Data choice, repositories, workflow → collaborative platform ctqmat-dm.
- Infrastructure maintenance and development.
- Education: SWC, Wü-RSE, KONWIHR Basis-Projekt
- Numerical Research: Splitting Methods, Monte Carlo methods.
- Involved in [ALF](#)(Fortran), [W2Dynamics](#)(Fortran, Python), [MARQOV](#)(C++)