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# Thesis

bachelor / master / project

working title:

**Discretization of Port-Hamiltonian Dynamics**

keywords:

**simulation, mechanics, thermodynamics, optimization, control**

ideal candidate:

while working on the thesis project, you would enjoy to

- play with new ideas at the intersection of discrete dynamics and physical systems theory
- work with a high-level programming language such as Julia or Python

a strong background in mathematics or computer science is *not* required, however, the ideal candidate would approach a broad range of topics from both fields with an open mind driven towards simplicity

while working on this project, you may frequently discuss and potentially collaborate with your supervisor

the focus of the thesis lies on (time and/or space) discretization of models expressed in a compositional and thermodynamically consistent modeling language for multiphysical systems

interested?

please contact [markus.lohmayer@fau.de](mailto:markus.lohmayer@fau.de).