## **Lab 10**

Mixed FEM. deal.II step-20.

Advanced Topic in Scientific Computing - SISSA, UniTS, 2024-2025

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## **Assignment**

- Read the documentation of step-20.
- 1. Modify step-20 so to use matrices and vectors from the TrilinosWrappers namespace.
- 2. In the solve() method, try different solvers and preconditioners in order to detect the combination minimizing the number of linear solver iterations. Focus in particular on Algebraic Multi-Grid (AMG) preconditioners.