

Training session

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This session will provide an overview of two software frameworks for parallel in time algorithms. Thomas Saupe will present pySDC, the python implementation of spectral deferred correction methods and their variants. He will demonstrate how to integrate it with other software packages such as Firedrake and Dedalus to solve PDEs. Josh Hope-Collins will present asQ, a python package for implementing parallel in time ParaDiag methods for finite element models. The session will introduce the methods but the main focus will be on the software and how to use it. The materials are available as demos on the software websites but there will be no expectation that you install or run the software in the session.