

Project Diary of Ben Cookman & Bradly Gadd-Speakman

Project 3/4, Department of Mathematical Sciences, Durham University
2022-23

1 October 5th, 2022 - 11:00-11:40

In this meeting, we reviewed the general plan of the project. We got to know about Brad and Ben's background and interests. We briefly discussed discretisation in time and space and I explained the focus of this project is time-integration. I shortly mentioned why parallelisation in time is challenging. Ben and Brad showed interest to pick Julia as the programming language for this project. We decided to use Git/Github as the main platform for sharing files and scripts and collaboration.

Assignment of the week

Brad and Ben will familiarise themselves with Git/Github, review classical time integrators and write scripts that solve simple ODEs using these integrators. Several sources for numerical ODEs (as well as a package for using Git/Github) were shared with them.