

# Project Documentation MPI Summer School

Daniel Weilandt

July 26, 2016

## 1 Numerical Stability and Advection

### 1.1 Stability

### 1.2 Advection

Eulerian description uses a fixed coordinate system while in the Lagrangian description the coordinate system moves with the particles that are described.

## 2 PAR - Reaction System

Assuming massaction behaviour for the

$$\frac{dA}{dt} = \quad (1)$$