Universität Basel

Research Project

DIAPHANE: A common platform for application-independent Radiative Transport in astrophysical simulations

Third-party funded project

Project title DIAPHANE: A common platform for application-independent Radiative Transport in astrophysical simulations
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sciCORE
Department
Project Website https://www.pasc-ch.org/projects/2013-2016/diaphane/
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The national PASC project DIAPHANE aims at developing a powerful portable radiative transfer library for SPH and AMR hydro codes, for multiple astrophysical applications (http://www.pasc-ch.org/projects/projects/diaphane

In Basel we focus especially on applications to supernova and hypernova explosions and the related neutrino transport. Such methods are tested in the SPH code SPHINX, the publically available high performance grid-based application code FLASHă http://flash.uchicago.edu/site/flashcode/ and the locally developed grid-based code ELEPHANT/FISH

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2826940	Thielemann, Friedrich-Karl	Mayer, Lucio, Professor	University of Zurich	01.01.2014	30.06.2017
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