

Journée Julia

**Rapport sur les
contributions**

ID de Contribution: 0

Type: **Non spécifié**

BifurcationKit.jl

vendredi 10 juin 2022 10:50 (50 minutes)

A Julia package to perform Bifurcation Analysis of possibly large dimensional equations by taking advantage of iterative methods, sparse formulation and specific hardwares (GPU)

Auteur principal: Dr VELTZ, Romain (INRIA)

Orateur: Dr VELTZ, Romain (INRIA)

ID de Contribution: 1

Type: **Non spécifié**

Julia for Geodynamics

vendredi 10 juin 2022 15:20 (50 minutes)

Auteur principal: Dr DURETZ, Thibault (CNRS)

Orateur: Dr DURETZ, Thibault (CNRS)

ID de Contribution: 2

Type: **Non spécifié**

PencilArrays.jl

vendredi 10 juin 2022 11:40 (50 minutes)

Distributed Julia arrays using the MPI protocol

Auteur principal: Dr POLANCO, Juan-Ignacio

Orateur: Dr POLANCO, Juan-Ignacio

ID de Contribution: 3

Type: **Non spécifié**

Julia subtyping

vendredi 10 juin 2022 10:00 (50 minutes)

Have you ever wondered how Julia dispatches method calls? As an answer, have you been pointed to a mysterious .c file in the source tree understood by at most five people on Earth? Are you afraid of complex type annotations? If yes, do not wonder anymore. This talk will be a friendly walk-through across the rules that govern subtyping, the relation at the very core of method dispatch.

Orateur: Dr ZAPPA-NARDELLI, Francesco (Research Scientist, Meta)

ID de Contribution: 4

Type: **Non spécifié**

DFTK.jl

vendredi 10 juin 2022 16:10 (50 minutes)

The density-functional toolkit, DFTK for short, is a library of Julia routines for playing with plane-wave density-functional theory (DFT) algorithms.

Orateur: Dr LEVITT, Antoine (INRIA)

ID de Contribution: 5

Type: **Non spécifié**

ParallelStencil.jl

vendredi 10 juin 2022 14:30 (50 minutes)

Package for writing high-level code for parallel high-performance stencil computations that can be deployed on both GPUs and CPUs

Orateur: Dr RÄSS, Ludovic