

**Advanced Course 2025/04/11:
Advanced HPC and Data
Management topics @KIT**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Advanced Bash Scripting + Exercises

Friday, April 11, 2025 9:30 AM (2 hours)

- Bash and shell features and utilities:
 - reading the bash manual
 - conditionals and looping beyond for loops
 - functions
 - arrays
 - using the terminal even more efficiently
 - more advanced shell tools and their composability
- Discussion about workflows
- Bash/Job scripting: * asynchronous * signal handlers: trap * composability of bash * Special filesystems * Job Chaining and job dependencies * Coalescing work together: gnu parallel
- Discussion of alternatives

Presenter: MESITI, Michele (KIT)

Contribution ID: 2

Type: **not specified**

Advanced Job Scripting + Exercises

Contribution ID: 3

Type: **not specified**

Adv. topics - Usage of bwHPC & HoreKa clusters

Presenter: WEISBROD, Peter

Contribution ID: 4

Type: **not specified**

Batch system: Best Practices (incl. parallel jobs)

Contribution ID: 5

Type: **not specified**

Introduction to Jobmon

Friday, April 11, 2025 2:30 PM (45 minutes)

Presenter: OBERMAIER, Holger (KIT)

Contribution ID: 6

Type: **not specified**

Adv. topics - Usage of bwHPC & HoreKa clusters

Friday, April 11, 2025 11:50 AM (1 hour)

Contribution ID: 7

Type: **not specified**

break