

**Advanced Course 2025/10/23:  
Advanced HPC and Data  
Management topics @KIT**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Advanced Bash Scripting + Exercises

*Thursday, October 23, 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

*Thursday, October 23, 2025 2:30 PM (45 minutes)*

**Presenter:** OBERMAIER, Holger (KIT)

Contribution ID: 6

Type: **not specified**

## **Adv. topics - Usage of bwHPC & HoreKa clusters**

*Thursday, October 23, 2025 11:50 AM (1 hour)*

Contribution ID: 7

Type: **not specified**

**break**