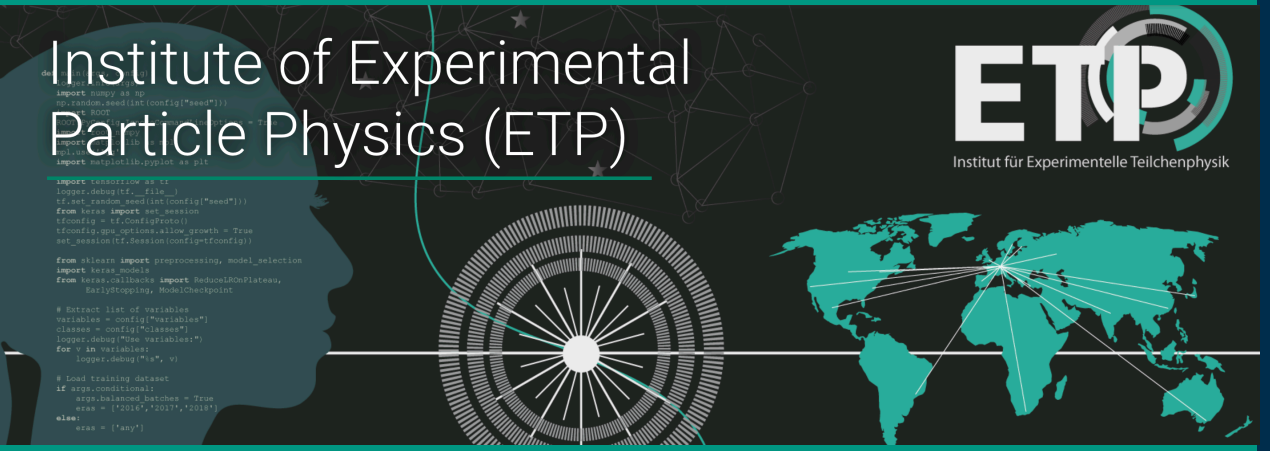
DE light



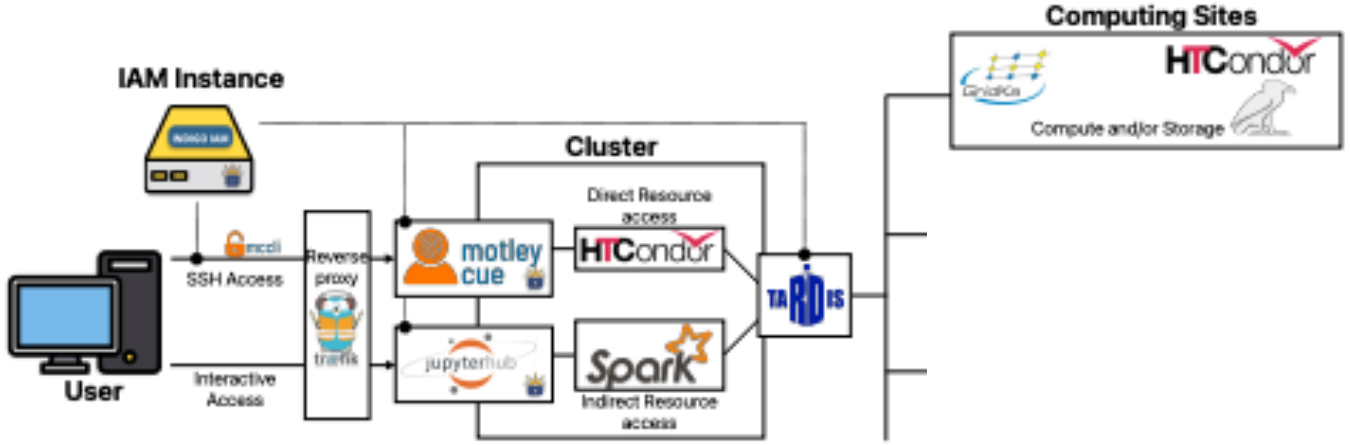
Computing

Prof. Dr. Markus KLUTE (ETP, KIT)
June 18th, 2025

DELight Computing Overview

- Overall, moderate amount of compute required to support the experiment
- Strategy: follow path of XLZD (formally DARWIN) computing setup with small scale, scalable analysis farm
- GridKa (grid resources) needed to scale compute rapidly and for storage

- Initial (R&D phase) GridKa needs
  - <CPU> = 3 with 500 peak
  - 25 TB storage
- GridKa needs during exp. operation
  - <CPU> = 6 with 1000 peak
  - 250 TB storage



DELight Computing (Next) Steps

- Dec ’25 Prototype for DARWIN (XLZD) computing (arXiv:2501.03007)
- May ’25 DELight approved project by GridKa oversight board

- June ’25 request VOMS
- July ’25 train additional support staff (HIWI)
- Sep ’25 commission DELight computing analysis farm

- Oct’ 25 (potentially later) resume development of analysis farm