

# WG2: Technological innovation in data analysis - Start of Activities -

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# Info on the group

- contacts:
  - COST website: <https://www.cost.eu/actions/CA22130/>
  - Mattermost: <https://mattermost.web.cern.ch/cometa/channels/town-square>
  - e-group email: [cometa-wg2@cern.ch](mailto:cometa-wg2@cern.ch)
  
- **deliverable** of this first year:
  - creation of a bridge between HEP and ML communities
  - definition of common benchmarks to develop algorithms for COMETA

# First ideas

- from first brainstorming on 18/9/2023
- **What can the HEP community give to ML?**
  - Understand from ML community what kind of data they would need (e.g. make available MC from LHC experiments (with complex problems, not just tabular data))
- **Identify the problems that HEP would like to approach with ML**
- **Make cases of study for the two communities together**
  - Define common benchmarks to develop algorithms

# Let's begin!

- Today's agenda:
  - Presentation of first study of ML for physics: *Functional Renormalization Group for Signal Detection*
  - Roundtable for ongoing or starting activities