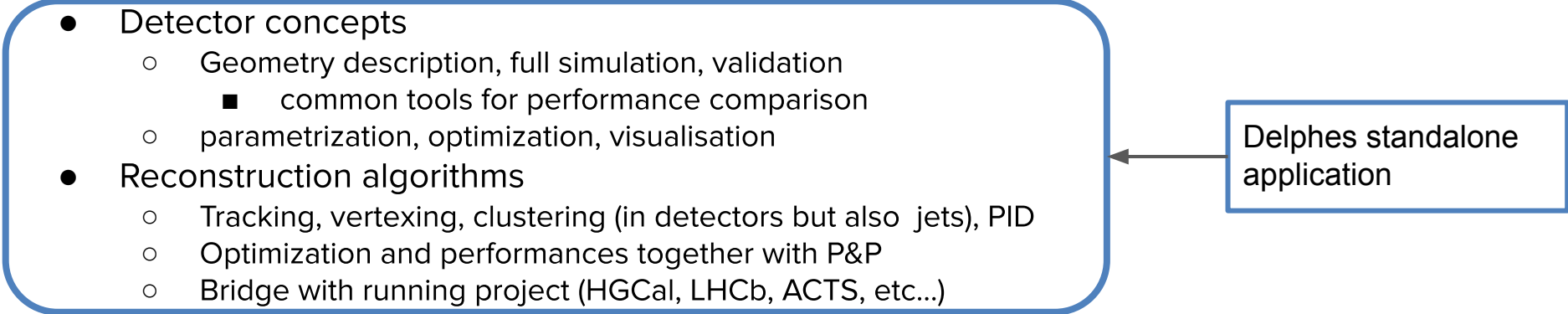# Areas of work

- Monte Carlo Generators
  - Interfacing, standalone application (common format), testing
  - Validation and optimization together with authors and Physics and Performance
- Detector concepts
  - Geometry description, full simulation, validation
    - common tools for performance comparison
  - parametrization, optimization, visualisation
- Reconstruction algorithms
  - Tracking, vertexing, clustering (in detectors but also jets), PID
  - Optimization and performances together with P&P
  - Bridge with running project (HGCal, LHCb, ACTS, etc...)
- Analysis
  - State-of-Art tools, Machine learning
  - Bridge with LHC expertise
- Computing
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FCCAnalyses and custom user codes