

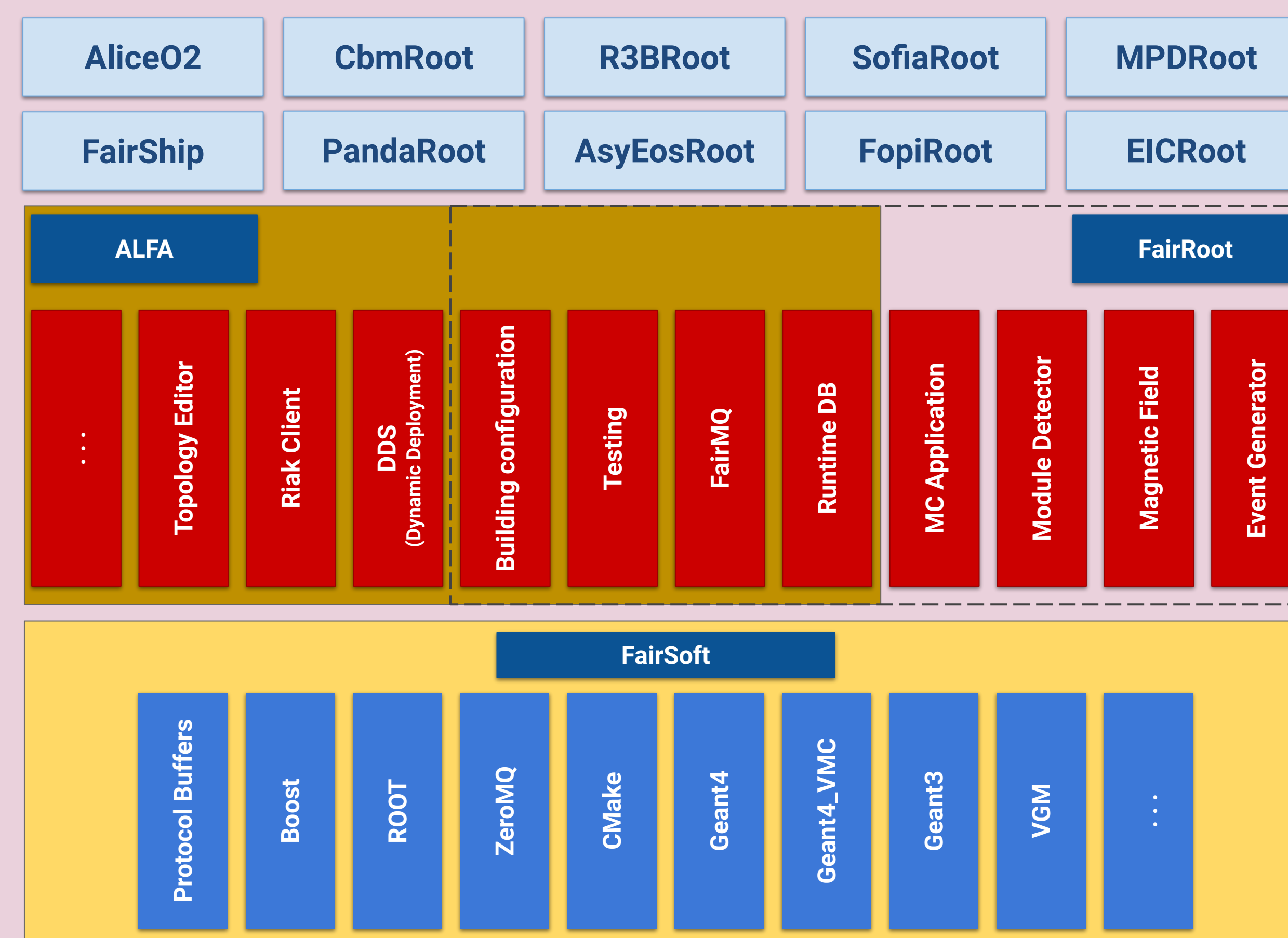
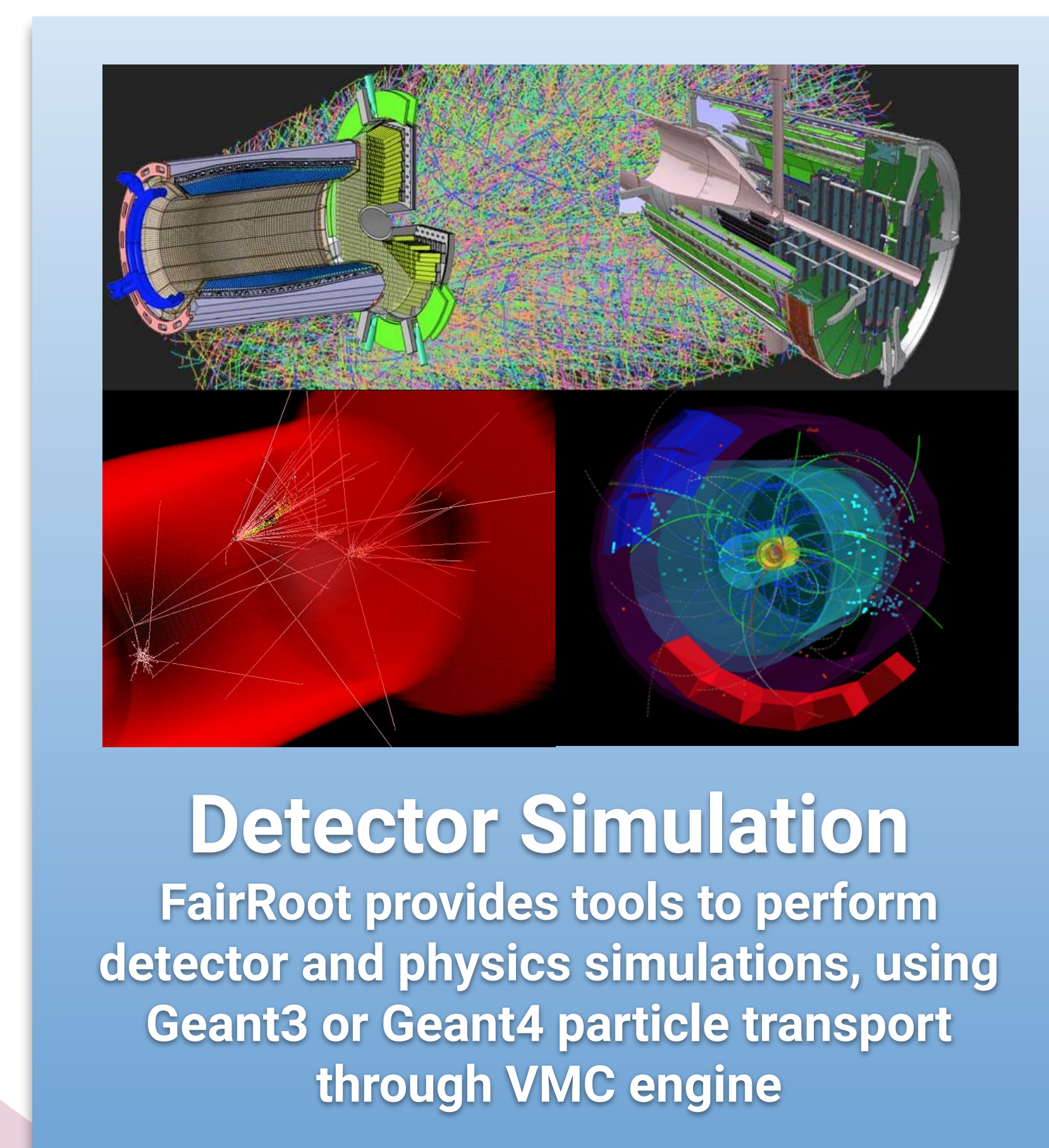
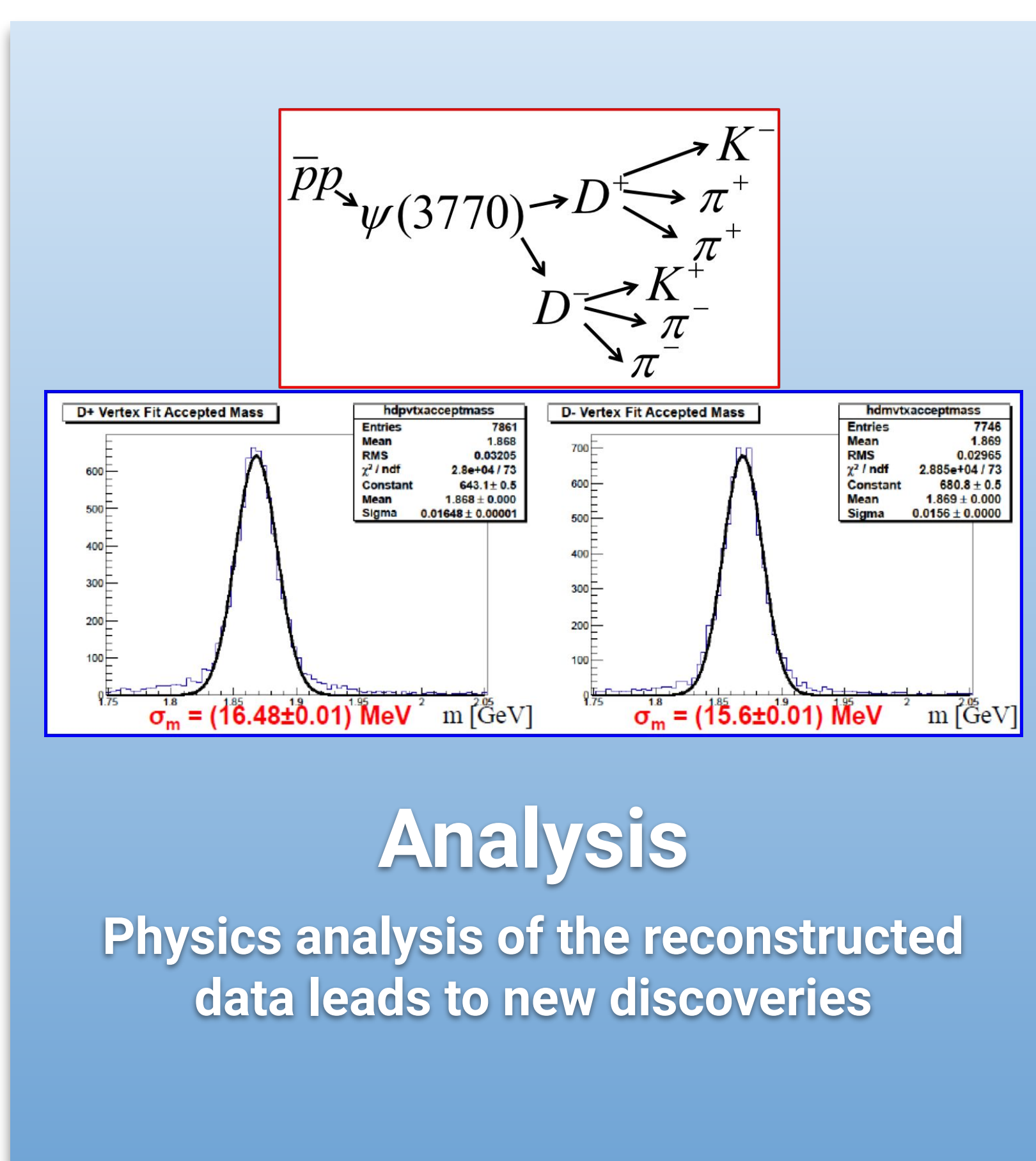


Experiment Frameworks



ALFA / FairRoot framework

- Common system for simulation, reconstruction, and analysis
- Configuration tools
- Management and monitoring tools
- A data-flow based model
- Unified access to configuration parameters and databases
- Generic data transport layer



Dataflow-driven Architecture

User code is organized into task topologies defined by their data inputs and outputs. The framework takes care of inter-task communication, File I/O, and task execution.

Unified Online/Offline

Whether you run on a laptop, a batch farm or a online farm, the same framework building blocks are used.

Concurrency

Multi-process/-threaded architecture, where entities communicate via generalized high-performance message queue system (FairMQ).

