TDataFrame Progress

Parallelisation Meeting 12-1-2017

TDataFrame Progress

Github repo: https://github.com/bluehood/tdataframe (branch testing)

- **All actions parallelised** (Histo, Min, Max, Count, Mean, ForEach, Get)
  - Technique used: **percolation of processing slot** (not resource protection, final reduction)
  - Engine: ROOT::TTreeProcessor
  - No performance measurement yet
- **ROOT coding conventions** compliance
  - Cleaner code: no “new”, more expressive ownership
- Interface: internals in ROOT::Internal and ROOT::Details
  - **Proxy to data frame, Filter, Pseudo Branch given to the user**, no concrete classes
  - “Forked actions”: can save a copy of an entity for later usage
- Tests and examples updated
  - **Regression and other tests**
- ROOT on which it depends not 6.08 anymore (TtreeReader, get size of IMT Pool)
  - Next LCG release to open it in SWAN
- Started a user guide