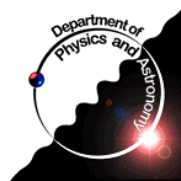


# LAr Testbeam Software

LAr Software Steering  
Group Offline

**Brief Status and Plans**

10 April 2003



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Physics and Astronomy

# Three Main Priorities

## 1) Maintain and develop existing Athena software

Used for EMEC+HEC 2002 run

Uses "parallel stream" to most LAr offline software (LArTBEvent, LArHECTBAna etc.)

Developments include conditions DB use, many detailed studies

## 2) Have working ATHENA software for

Combined barrel technical run: 11-12/2003

Combined EC technical run: 11-12/2003

Combined barrel run: summer 2004

Combined EC run: summer 2004

## 3) Integration of testbeam software tools into full LAr software

Powerful diagnostics

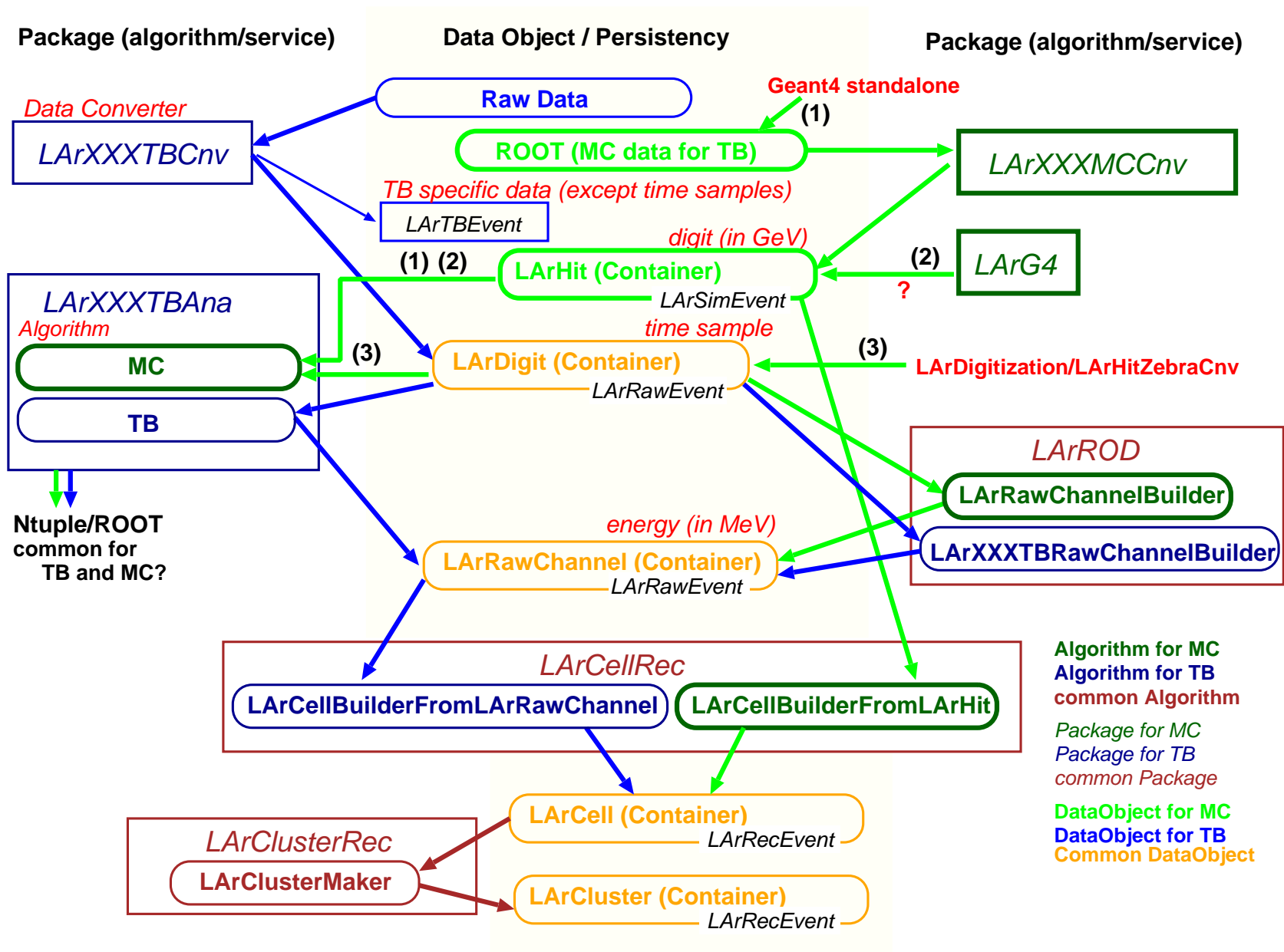
Timing studies

Detector studies

Others...

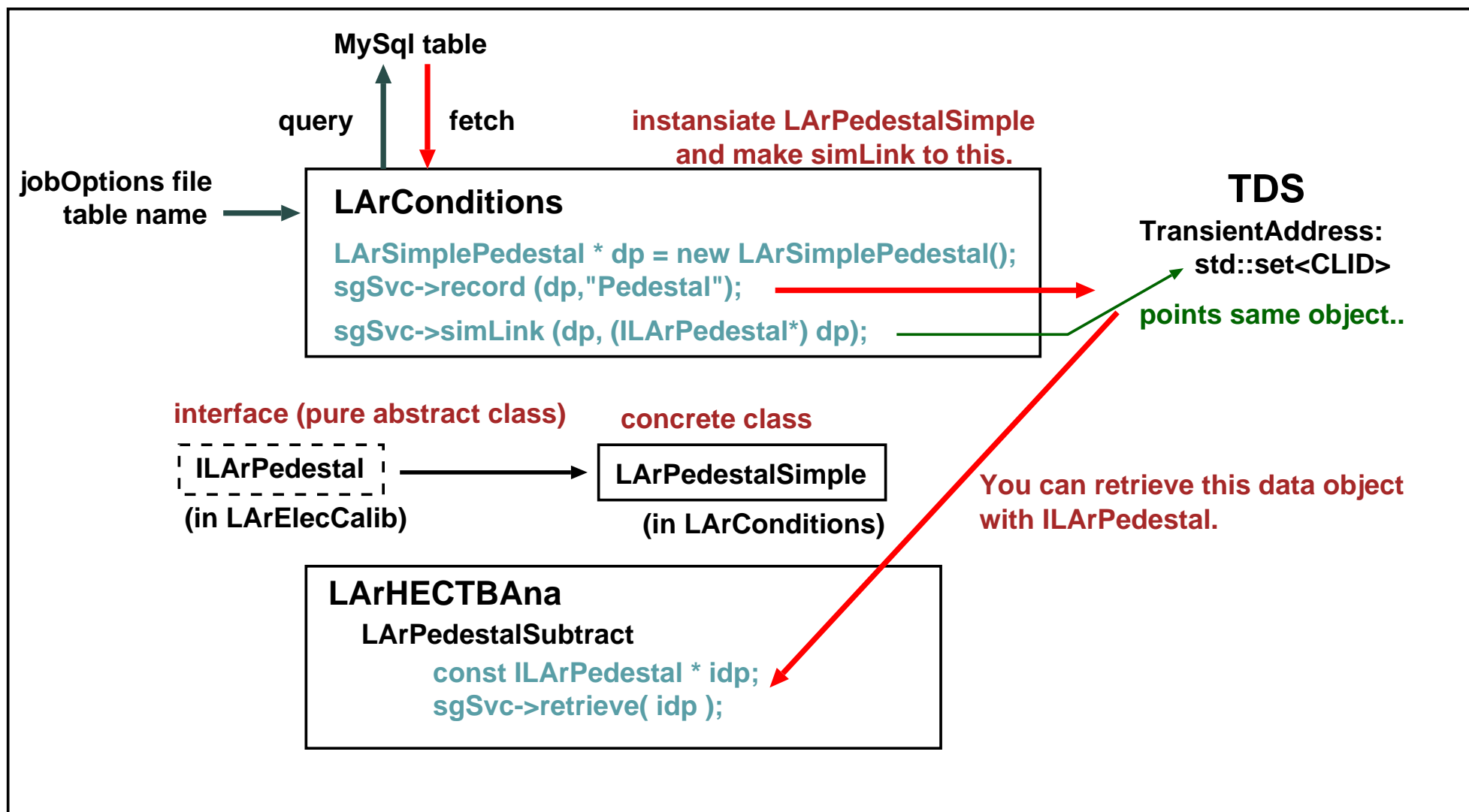


# Possible Overview (general)



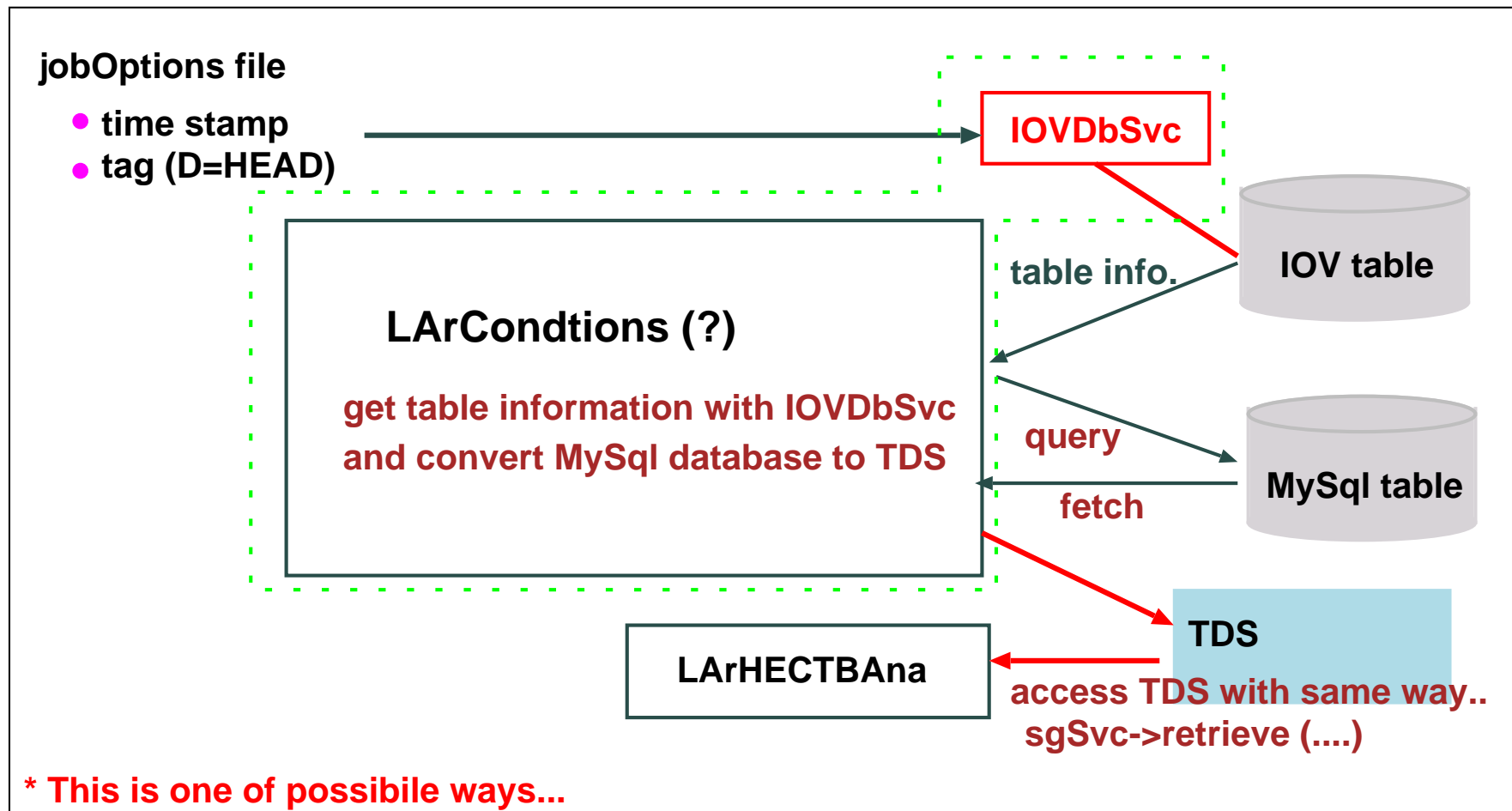
# LAr Conditions Database

Current LArConditions package cannot handle time interval of validity..



# IOVDbSvc (Interval Of Validity)

One can obtain the desirable table reference from IOVDbSvc and IOV tables (using ConditionsDBMySQL).



You can find these packages under offline/Database.

# Possible Plan

## Minimal effort:

Create "LArFCALTBAna", "LArEBTBAna", etc.

Already in progress with FCAL for 2003 calibration run

Work started but, stalled, (at Annecy) for LArEBTBAna

## Better:

Full integration of LArXXTBAna into offline "LArROD" et al.

## Plan:

Study commonality between testbeam and offline software

Guillaume Unal together with Kanaya, Lefebvre, McPherson, ...

Develop design for "final" testbeam software system

Make realistic assessment of what can be done for combined testbeams in 2004, and implement this

critical to have working code on time

Implement final testbeam software system if it cannot be done before summer 2004