97_6 version of Atlas Software
2 September 1997

- Evolution
- Current Status
- Next

96_12 version of Atlas Software

- Geometry
  - Calorimeters : TDR
  - Inner Detector : TDR
- Reconstruction
  - AtRecon 1.20
    - EcalRec, HcalRec, EmisRec
    - xKalMan, PixlRec
  - iPatRec 1.10 (barrel)
  - Atutil 1.12
  - Atrig 3.01

97_3 version of Atlas Software

- Geometry
  - identical to 96_12 version
- Reconstruction
  - Atrecon 1.22 (Calorimetry, xKalMan, PixlRec)
  - Atutil 1.12 (calibrations)
  - iPatRec 1.11 (full detector, better material)
  - Atrig 3.03

97_6 version of Atlas Software

- Geometry
  - Calorimeters as 96_12
    - charge collection in em-barrel, endcap ?, cryostat thickness
  - ID several modifications
  - Muon TDR
    - problem with number of hits
- Reconstruction
  - Atrecon/Atutil 1.30
    - cleaning & bug fixes, new calibration
    - no muon
  - Atrig not ready yet

97_6 version of Atlas Software

- Atlsim 1.30 (new geant shapes, common blocks)
- Atgeana3216 (new GCDES, GHCDES, code from CVS)
- Slug 1.22 (initialisation & loop, seed control, Pi0 Eta Dalitz decay)
- Genz/Ggenz/Genslug (recompiled)
- Gcalor (recompiled)
- Dice 3.10 (Muon, ID, currents in em-barrel calorimetry, structures)
- Atutil/Atrecon 1.30, iPatRec 1.11
- Atrig
- Atgen 2.00

Timing for reconstruction

• single electron	
– e (Pt 20Gev)	1.64 sec/event
– e (Pt 40Gev)	1.06
– e (Pt 20Gev) + pileup	87.9 sec/event
– e (Pt 40Gev) + pileup	94.6
• jets	
–	9.6 sec/event
– +pileup	82.4

calo seed threshold 5 Gev

Ptmin 1Gev for electron, 4 Gev for pileup

calorimetry + iPatRec + xKalman

Next

- Accept some bug fixes
- Add Trigger Code
- Add Muon reconstruction code
- Prepare a “Atrig/Atrecon” executable

- Move to CVS