# *Status reports*

Trigger simulation	M. Palutan, B. Sciascia
DC Geometry	A. Antonelli, S. Dell'Agnello
DC wire sag measurement	S. Dell'Agnello, C. Forti
DC s-t relations with new sag model	P. De Simone
EmC geometry	S. Miscetti
EmC response	S. Miscetti
Background selection	S. Miscetti, M. Moulson
DC dead/hot & efficiencies	M. Moulson
Background insertion	M. Moulson
Beam position and momentum	M. Moulson
Beam energy spread	T. Spadaro, C. Gatti
Generators/MC tuning	C. Bloise
DB modifications	I. Sfiligoi
Scripting	M. Moulson, C. Bloise

DC dead/hot & efficiencies
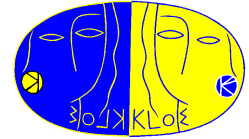
DCDELETE: A/C module for removal of hits on dead/hot wires

- Automatically determines run number from BRID bank (*new*)

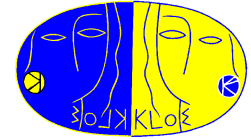- Needs multiple parameter sets and talk-to options (*fast*):

  Example UIC:

  > INSERT DCDELETE/PAR=1 TSKT DCDELETE/PAR=2

  > TALK DCDELETE/PAR=1 DROP DEAD RETURN

  > TALK DCDELETE/PAR=2 DROP HOT RETURN

- Should DCDELETE simulate DC hardware efficiencies?

  If yes, ~1 day of work

Background selection & insertion: status

Background selection requires two passes over all **bha** files

1. Obtain weight histograms (E, $\cos\theta$) to downscale clusters that are impossible to unambiguoulsy assign to background
2. Harvest background

Time estimate:

One pass: 3 pb^{-1} = 4 hrs real time: **450 pb^{-1} = 3 ½ weeks**
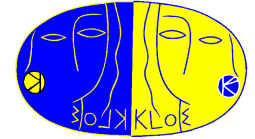
Can start now

Plans:

Realistically at least 1 more week until ready to start production

Start MC production jobs where weights exist

Generator and background harvest in parallel
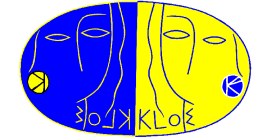
Reconstruction conditioned on completion of both

DC background insertion

INSERT A/C module is ready

Adjustment for different s-t relations in MC/data will not be done

- Many conceptual problems (raw vs fine s-t relations)

- Duplicate all common structures used to hold s-t relations

- Switch back and forth hit-by-hit in reconstruction of drift distance

Beam position and momentum

BVLAB running as part of **bha** scan for background selection weights

Will give new estimate of $\sqrt{s}$ for all 2002 data

Not automatic: requires analysis

Preliminary scan for holes in $\sqrt{s}$, $\mathbf{p}_\phi$, $\mathbf{x}_\phi$ values:

- 159 runs (of 5230) with NO value available for one or more of these variables

- Analysis needs to be much more detailed (which versions of BPOS, BMOM)

- Need to make sure correct version of getbpos…used
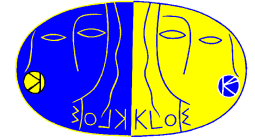
Scripting

Most scripting work yet to be done:

- Will use load leveler
- Probably start with generation and background harvest in parallel followed by reconstruction

Personal estimate: 1 week to develop and test

Some pieces already exist:

mcprof.pl: Given a run number, MC card, and LSF:

Calculates number of MC runs necessary, number of events in each run, and correspondence to raw files for each MC run

This information written to a text file, which will be read by GEANFI