

# MC Production: Status & Plans

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**Munich, Germany**

**CALICE Analysis Phone Meeting**  
**13.12.2010**



# MC requests

## Past MC requests:

- very quiet, last request: July
- 1 open request from Andrea, but missing information

## Required information: (see also <https://twiki.cern.ch/twiki/bin/view/CALICE/MonteCarloProduction>)

- particle
- energy
- run number(s)
- events (e.g. 10000 x 5 = 50k)
- detector model (e.g. TBCern0707\_p0709, TBFnal0508\_p0709, ...)
- beam profile
- physics list
- software version (e.g. calice v04-00)
- position ECal/HCal (run period specific)

# MC (Mass) Production

## — [ Current Status:

- Usage of NAF with python scripts
- Store information @ TWiki

## — [ July ILD Software Meeting:

- Jan Engels (DESY): Create Mass Production Software for ILD RDR
- Stephane Poss (CERN): Create Mass Production Software for CLIC CDR
- Idea: Merge both + after System is stable: CALICE Interface provided by me (L.Weuste)
- No progress so far

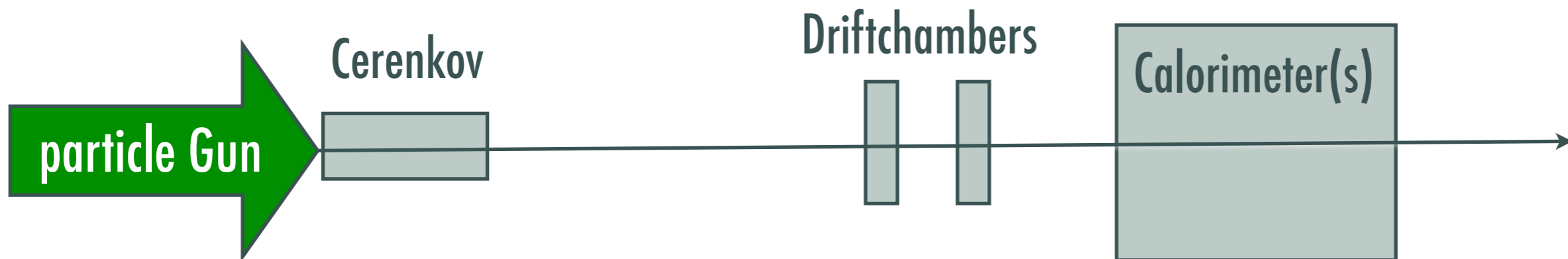
## — [ CALICE Requirements:

- Currently only very little MC requests
  - Submission using scripts no problem (after adapt to new CALICE/ILD Software Ver)
  - TWiki still ok to overlook existing MC requests, although improvement would be nice
- Maybe Full Scale grid mass production submission software not needed?

# Beam Parameters @ MC Production

## Beam Spread/Position:

- Known for CERN 2006/2007, but not easily accessible
- Unknown for FNAL 2008/2009: Alignment Drift-Chamber  $\Leftrightarrow$  Calorimeter not done
- S. Weber (Wuppertal): extract info + write to DB (2006/2007)



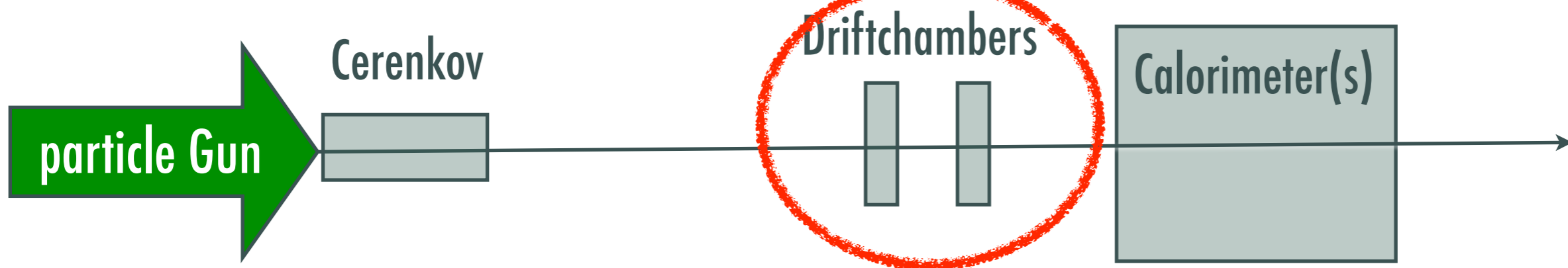
## Current Beam Setup @ MC:

- particleGun in front of Cerenkov. DC Info has to be calculated back to pos. (multiple scatt.)
  - Cerenkov in Mokka model, but no digitization, no simulation of beam mix (pi/e/proton/..)
- Idea: Set particleGun in front of Driftchambers

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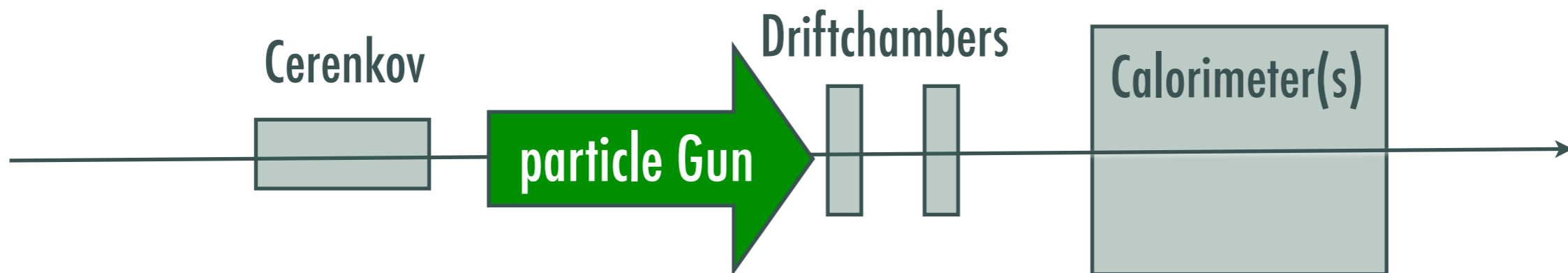
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# For discussion

1. Do we need a full scale Mass Production Software?
  - ✓ Bookkeeping using TWiki on larger scales not applicable
  - ✓ Can use full Grid Calculation Power ==> Faster (although not a problem so far)
  - ✗ Current System is working, new System might be overkill
  - ✗ Man power
  - Suggestion: Keep current system for now. If easily possible: move to either ILD/CLIC System
2. Move particle gun in front of Drift-Chambers instead of Cerenkov?
  - ✓ real data beam profiles usable ==> better for comparisons MC <=> data
  - ✓ Cerenkov information unused (no digitization, ...)
  - ✓ Beam mix (e/pi/kaon/proton..) not simulated anyway
  - ✗ Break with current setup