Channel Mapping and CellID1

- LCIO CellID1 is used to store the module number
  - Nasty: Flag has to be turned on explicitly (but LCIO does not complain)
  - All proccessors have been adapted

- ADCChannelMapping class has been extented
  - `getModuleID()` GEAR module ID
  - `getReadoutGroup()` Hardware readout group (Altro RCU, TDC module)

- New tool: MappingGenerator

Command line tool which creates lcio file
with mapping conditions data.

- Input: GEAR layout + text file with mapping table

#	RCU	channel	module	row	pad
	2	256	3	5	80
	2	257	3	5	81
	2	258	3	5	82
	2	259	3	5	83
	2	260	3	5	84
	2	261	3	5	85
	2	262	3	5	86
	2	263	3	5	87

...

New processor: ADCPulseConverterProcessor

- Direct conversion of TrackerData to Tracker Pulse
- Requires hardware zero suppression and pedestal subtraction
  Advantage: Does not need pedestal conditions data

Multiple module capability:

- ChannelMapperProcessor
- HitTrackFinderTopoProcessor
- HepRepOutputProcessor

Has not been tested with real data yet.

GEAR dependency

Modular version depends on GEAR with modular TPC extension

- No GEAR tag yet
- Latest version not even in CVS
  (available as bzr branch at
  /afs/desy.de/user/k/killenb/ilcsoft/gear/modularTPC)

Everything that needs modular GEAR is not the trunk
(currently only in my branch `branches/killenb`)

Proposal (solution until GEAR extension is stable):

- Create branch which works with inofficial bzr version
- Merge to trunk as soon as CVS tag is available