

Software and Development issues

Ch. Rosemann

DESY FLC

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MarlinTPC Phone/EVO meeting

- Missing z error of LCIO::TrackerHit
pending extension of LCIO::TrackerPulse, addition of errors
- Missing charge and error in LCIO::TrackerHit
status pending
- Have a look at the Hit flag definition:
`http://forum.linearcollider.org/index.php?t=tree&goto=1916`
- Proposition: LCIO::Track can be flagged to be of specific type
 - 1 create flag word table of meaning (similar to LCIO::TrackerHit)
 - 2 include flag word for straight lines (e.g. no magnetic field)

⇒ make fitters/processors aware of this!

Alignment of Modules

Current status

- Static geometry description (in xml GEAR file)
- No dynamic changes possible
- No possibility to re-align coherent units (modules)
- Nothing planned in the short/mid term (months to years)

Do it ourselves

- Calculate rotations/translations relative to initial positions
e.g. by cosmics, tracks on single module and matching
- Store this in conditions data
- Apply corrections to Hit level

In short: two processors in two separate, complete chains

- 1 Misalignment calculation on Track Level, output is Conditions Data
- 2 Alignment on Hit Level

- Create processor for parametrised version
- Also (?) have conditions data for certain points with interpolation
- See talk/announcement of Christian Grefe