

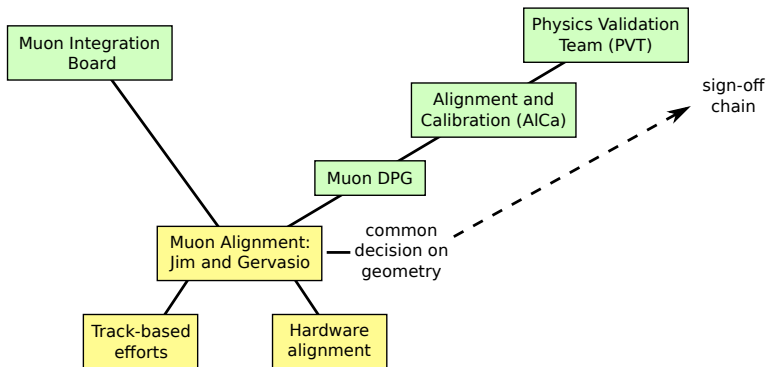


Muon Alignment News

Jim Pivarski Gervasio Gomez

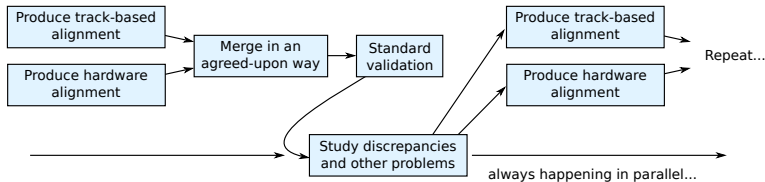
2 July, 2010

- Gervasio and I have been nominated as co-conveners of the Muon Alignment Group



- The sign-off chain is formalized, but long: we'll need to have a common decision on a muon geometry within the group a few weeks in advance of the CMS-wide sign-off

- ▶ Even when a requested sign-off date is announced in advance, slippage can make the actual date uncertain
- ▶ To avoid being caught without an agreed-upon geometry, we should always have a “state-of-the-art” on hand



- ▶ The discrepancies/problems that we're working on are usually motivated by the results of validation anyway: having a validated working point formalizes that (and can help assess priorities)



- ▶ Major topic: relative track-based/hardware “barrel twist”
 - ▶ largest/most systematic track-based-vs-hardware difference
 - ▶ goal: to express what was actually measured very clearly, to figure out where to look to resolve the apparent contradiction

Muon Alignment

chaired by Gervasio Gomez (Instituto de Fisica de Cantabria) , Jim Pivarski (Texas A&M University)

Friday 02 July 2010 from 15:00 to 18:40 (Europe/Zurich)
at EVO

Material Previous Meeting

Friday 02 July 2010

- 15:00 - 15:05 The usual wait for people to connect...
- 15:05 - 15:15 **News 10'**
Speaker: Jim Pivarski (Texas A&M University)
- 15:15 - 16:00 **Barrel "Twist": HW vs tracks 15'**
15:15 **Constrains from global tracks 15'**
Speaker: Aysen Tatarinov (Texas A & M University)
- 15:30 **Constrains from stand-alone tracks 15'**
Speaker: Luca Scodellaro
- 15:45 **Constrains from Link HW 15'**
Speaker: Gomez Gervasio (IFCA)
- 16:00 - 16:15 **Endcap HW constants 15'**
Speaker: Himali Kalakhety (Florida Tech)
- 16:15 - 16:25 **Common HW data-taking 10'**
- *Synchronized 3.8T data taking period for new HW geometry*
- Material: Slides
- 16:25 - 16:40 **Schedule proposal for new constants 15'**
Speakers: Gervasio Gomez (Instituto de Fisica de Cantabria) , Jim Pivarski (Texas A&M University)
- 16:40 - 16:45 The following discussions are more technical
- 16:45 - 17:05 **Automation/Unification of hardware system workflows 20'**



Common sessions: specific details of interest to both groups; in particular, comparison/merging of results, what the final results mean (uncertainties, correlations, well/poorly determined parameters), standardized validation
Beginning of the Friday meeting probably best for everyone
Should be kept relatively brief (1–2 hours)

Hardware details: operations (e.g. problems with specific sensors), automated workflow, merging endcap/barrel/link results

Track-based details: book-keeping and other computer issues, framework development, in-progress residuals mysteries, etc.

“Details” can directly follow the common session, but should we

- ▶ alternate by week? (less frequent “details” sessions)
- ▶ split into parallel sessions on Fridays? (people can't do both)
- ▶ do track-based details on a different day? (need to schedule)



- ▶ I'm looking forward to working with Gervasio on a common alignment solution
- ▶ I'm sure that we can start fresh and come to a good understanding of the muon alignment geometry