PWG1 issues

Introduction

- Evolution of PWG1
- Proposal for the new PWG1 structure
- Examples of the current issues

  (and how they would map to the new structure)

Evolution of the PWG1

- From ~1996: Start of the group. Limited number of people.
  - Defining the ALICE reconstruction strategy and doing some "maths".
  - Designing/implementing the main reconstruction components.
- From ~2001: The thing goes to the detector groups.
  - First the TPC, then the ITS, the TRD, the TOF…
  - Common issues. Combined performance. PPR in 2005.
  - Monte Carlo. Basic calibration/alignment .
- From 2009 up to now: Dealing with the real data.
  - The calibration is changing all the time.
  - MC vs reality: alignment, material, primary vertex position…
  - New detectors become operational (EMCAL).
  - On the other hand: 95 people registered in PWG1, more people (from the First pp and First PbPb physics groups) are coming in.

The idea behind the new PWG1 structure

- The situation is changing fast (new data, new reco passes, new QA results, etc). To also react faster, we'd need to meet more frequently.
- The whole group (~100 people) cannot meet more than once per month (and this is not needed in fact).
- So we'd like to create a few dedicated subgroup (other PWGs have already done it). Each of these subgroup would
  - have a limited and well defined scope of responsibility;
  - have its own responsibles: new and motivated people, one closer to the detectors, another (quasi)permanent at CERN;
  - meet as often as it will be needed (EVO).

- And, we keep the spirit of the PWG1. We focus more on
  - common issues;
  - "interactions" between the detectors;
  - combined ALICE detector performance.
- And, we go on with our monthly meetings. They become "plenary" PWG1 meetings (like other PWGs do).

New PWG1 structure

- PWG1: I. Belikov, (who else)?, …
  - QA and run conditions: A. Morsch, K. Oyama?, …
  - Calibration: R. Preghenella, M. Ploskon?, …
  - Tracking/vertexing/alignment: F. Prino, R. Shahoyan?, …
    - Embedding: C. Loizides?, …
  - Global event properties: A. Toia, M. Floris, …
  - Event display: ?, ?, …

Examples: issues <-> subgroups

- The calibration subgroup:
  - Making sure that all the calibration is ready for the next reco pass.
  - Most of the cases where something "is seen in the data" but "is not seen in MC" (example: track matching with HMPID).
- The tracking subgroup:
  - More precise material corrections.
  - Bremsstrahlung corrections.
  - Low-pt tracking.
  - Embedding.
- The global event properties subgroup:
  - Centrality selection running also on MC.
  - Implementation of the event plane in a "centralized way".