Digitization Status

Summary of Pre-Meeting Friday, 22/3/2002 (J. Chudoba, M. Ivanov, P. Hristov, Massimo Masera, A. Morsch)

ITS

- SDigits and Digits available for SPD, SDD and SSD
- Missing
 - More efficient use of HiMap
 - Region of interest
 - Testing macros for merging

TPC

- SDigits, Digits, Merging available and tested
- Problem
 - Backward compatibility of new segmentation
 - Correct overwriting of TPC parameters

TRD

- SDigits, Digits and Merging available
- Missing
 - Region of interest
 - More testing (also with new geometry)

TOF

- SDigits and Digits available
 - SDigits to Digits Conversion
 - Testing
 - Merging
 - Current version cannot process data from test production!

PHOS

• SDigits, Digits and Merging ok

RICH

- SDigits, Digits and Merging ok
- SDigits (PadHits) are created during simulation

PMD

- No Digits
 - manpower problem
 - should be trivial (for example using HitMap)
- Merging not needed

START, FMD

- SDigits and Digits available
- Merging not needed

ZDC

- Digits and Merging available
 - Merging = Fragments + Central Event

MUON

- SDigits, Digits and Merging ok
- SDigits (PadHits) are created during transport
- Independent production for beam-shield simulation needed
 - 1000 events to be produced in Nantes
 - 250 events exist
 - 5h per central PbPb

Digitization Control

- Two procedures are currently maintained in parallel
 - AliDigitizer class
 - AliRun::Hits2Digits, AliRun::SDigits2Digits
- Clean-up needed

Digitization Control

- To be discussed
 - What goes into general production
 - Digits, SDigits
 - Which detectors
 - Recpoints?
 - File handling
 - Requirements on folders and split files
 - Requirements for Alien

Status

- ITS
 - Clean-up of macros
 - Old macros in directory oldmacros
 - Merging committed and tested on one event
 - Debug TTask Hits2SDigits
 - Merging of SDD (to be finished during the next weeks)
 - optimise time
 - electronics simulation before SDigits
 - test liniarity
 - SSD double peak problem
 - tests
 - spikes in energy
 - spikes in step-size
 - check energy cuts

Status

- TPC
 - Code changed
 - Tests running
- TRD
 - Region of interest
 - Digitization independent of geometry class
- TOF
 - Gaussian smearing of time
 - Noise, pad coupling effects, border effects

Status

- START
 - not completed
 - not working now
 - work ongoing
- PHOS/EMCAL
 - Some tuning on merging level needed