Recent models in Mokka

Naming convention

- Model name = XXXYY_ZZtt where:
 - \Box XXX = detector concept (LDC, SID, GLD)
 - \Box YY = baseline:
 - 0 = Tesla TDR
 - 1 = LDC
 - □ ZZ = release number (serial)
 - tt = Details (Rp = Hcal RPC, Sc = HCal Scintillator, etc.)

00 = "Tesla baseline"

Four models : □LDC00xx \Box LDC00 01xx \Box LDC00_02xx □LDC00 03xx • (xx = Sc or Rp)

Tesla baseline

- Main parameters = almost the same as the last Tesla model "D12":
 - Ecal with 30 X 1,4 mm + 10 X 4.2 mm for radiator W layers
 - □Hcal with special end modules
 - \Box Barrel halfZ = 2730 mm
 - □TPC outer radius = 1690 mm

□etc.

LDC baseline

Three models :
LDC01xx
LDC01_01xx
LDC01_02xx
(xx = Sc or Rp)

01 = "LDC baseline"

- Main parameters = first approach by Henri Videau for the LDC baseline :
 - Ecal with 20 X 2,1 mm and 10 X 4.2 mm for W layers
 - □Hcal without rings
 - □Barrel halfZ = 2200 mm
 - □TPC outer radius = 1580 mm

□etc.

Releases

>_01 = improvements on Hcal (fiber gap for scintillators) and yoke, strip LumiCal by Bogdan Pawlik

≻_02 = _01 +

- new TPC with limited step length (by Adrian Vogel)
- yoke and muon chamber implemented by Predrag
- A realistic vertex detector geometry (tube + vxd) based on TESLA TDR
- Without LumiCal

Releases

$>_{03}$ (only for Tesla baseline) = _02 +

 Cross angle configurations (changes in mask, tube, Field) and new LCal (all by Adrian Vogel)

New ready developments not yet released

- New Sit By Hengne Li (see slides and notes)
- >New Ecal driver :
 - Si wafers and gaps (fiber + rings)
 - Faster end caps (without booleans)
- >New Hcal driver :
 - > 3 modules per stave
 - > Rings as asked by Predrag

Open issues toward a new model

≻What for?

>Agree on a new LDC model?

> Wait for a ILD proposal?

> To provide an up to date LDC model?

>What's the up to date LDC model?

> Who is implementing what?