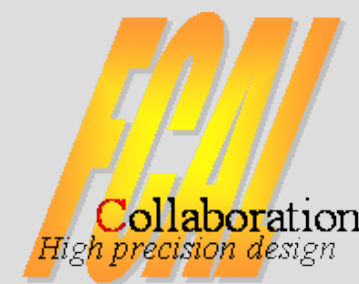
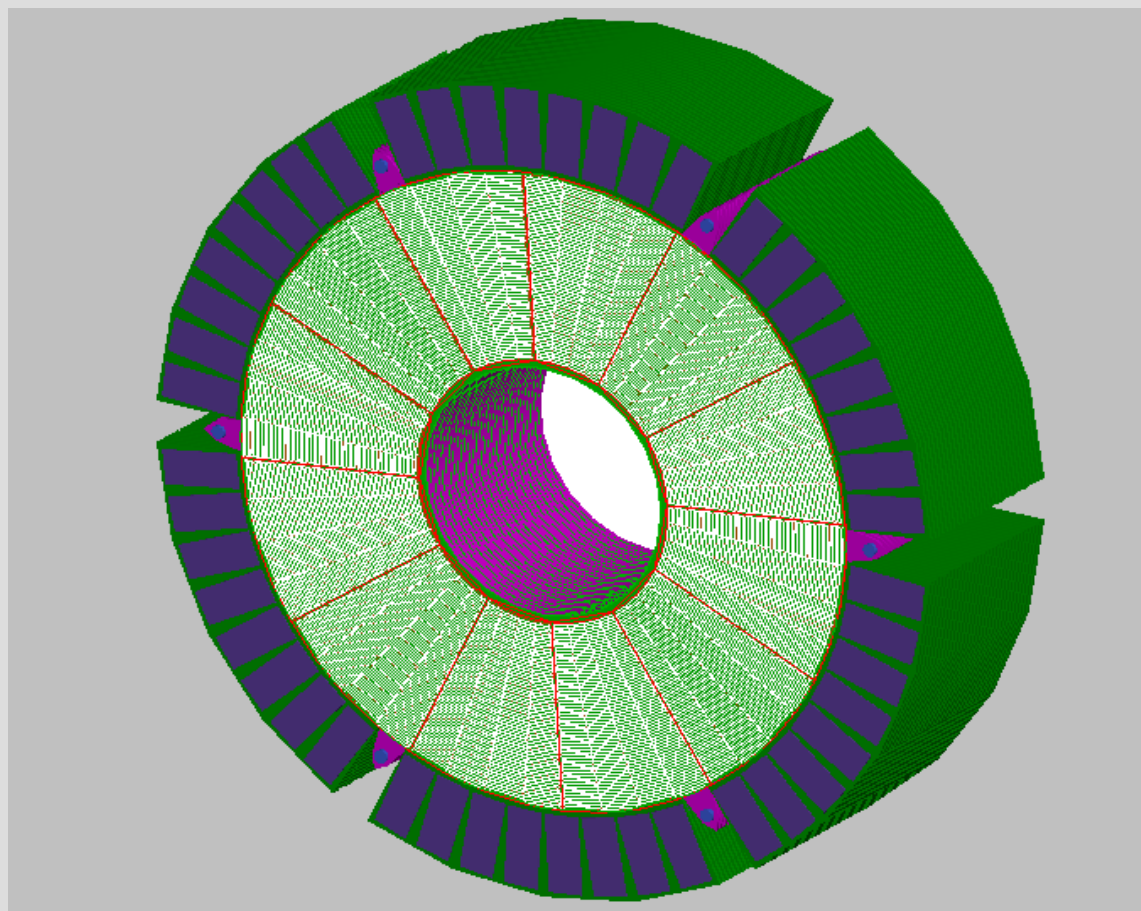
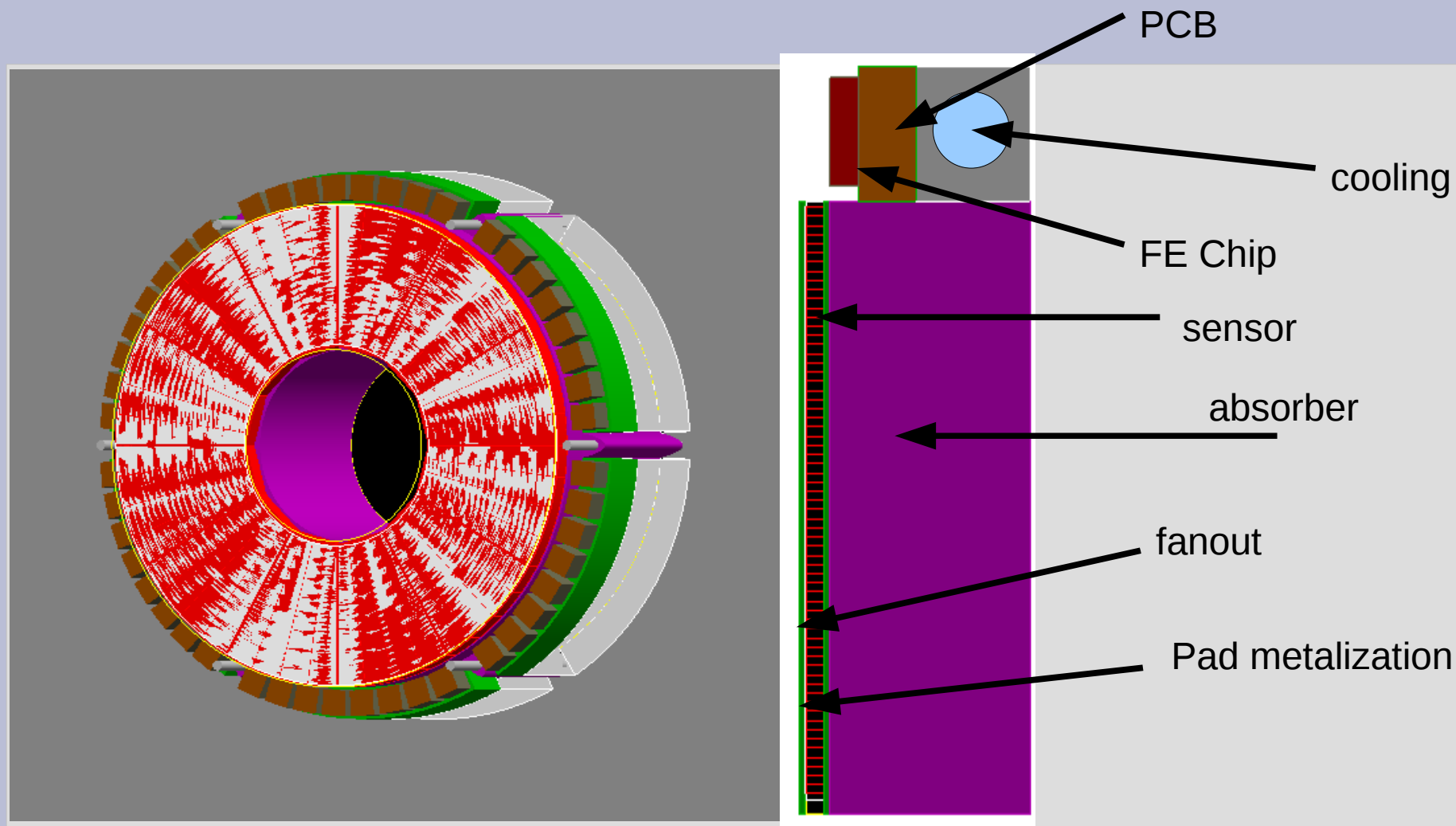




# Status of LumiCal Simulation Software



# Implemented Geometry



# New Drivers

**SLcal03** - LumiCalX01 ( tag mokka-07-02 or higher)  
tile gaps, pad metalization, support structure, cooling, electronics

usage:

```
/Mokka/init/detectorModel ILD_00fwp01  
/Mokka/init/EditGeometry/rmSubDetector Slcal02  
/Mokka/init/EditGeometry/addSubDetector SLcal03 100
```

**LumiCalV** -LumiCalV00 ( tag mokka-07-04 )  
as above, instead real cells virtual one are implemented,  
save 30% CPU time

usage:

```
/Mokka/init/detectorModel ILD_00fwp01  
/Mokka/init/EditGeometry/rmSubDetector Slcal02  
/Mokka/init/EditGeometry/addSubDetector LumiCalV 100
```

# *Default Parameters*

```
/Mokka/init/globalModelParameter Lcal_z_begin 2500.  
/Mokka/init/globalModelParameter Lcal_inner_radius 77.275  
/Mokka/init/globalModelParameter Lcal_outer_radius 196.5  
/Mokka/init/globalModelParameter Lcal_extra_size 26.  
/Mokka/init/globalModelParameter Lcal_n_layers 30  
/Mokka/init/globalModelParameter Lcal_n_tiles 12  
/Mokka/init/globalModelParameter Lcal_nstrips_phi 48  
/Mokka/init/globalModelParameter Lcal_nstrips_theta 64  
/Mokka/init/globalModelParameter Lcal_phi_offset 0  
/Mokka/init/globalModelParameter Lcal_sensor_phi_offset 3.75  
/Mokka/init/globalModelParameter Lcal_layer_gap 0.1  
/Mokka/init/globalModelParameter Lcal_tile_gap 1.2  
/Mokka/init/globalModelParameter Lcal_silicon_thickness 0.32  
/Mokka/init/globalModelParameter Lcal_support_thickness 0.4  
/Mokka/init/globalModelParameter Lcal_tungsten_thickness 3.5
```

# Summary

- Sical02 and earlier driver shall be considered as obsolete
- New drivers :
  - Sical03 ( mokka tag > 07-02 )
  - LumiCalV ( mokka tag > 07-04 )are recommended for future productions
- Need new ILD production model with new drivers as default