(mis)alignment by shifting hits (September 2005)

AliSimulation::RunSimulation

TRD.Hits ← **modify**

RunSDigitization

TRD.SDigits

RunDigitization

TRD.Digits

AliReconstruction.Run

TRDdebug   **AliESDs**
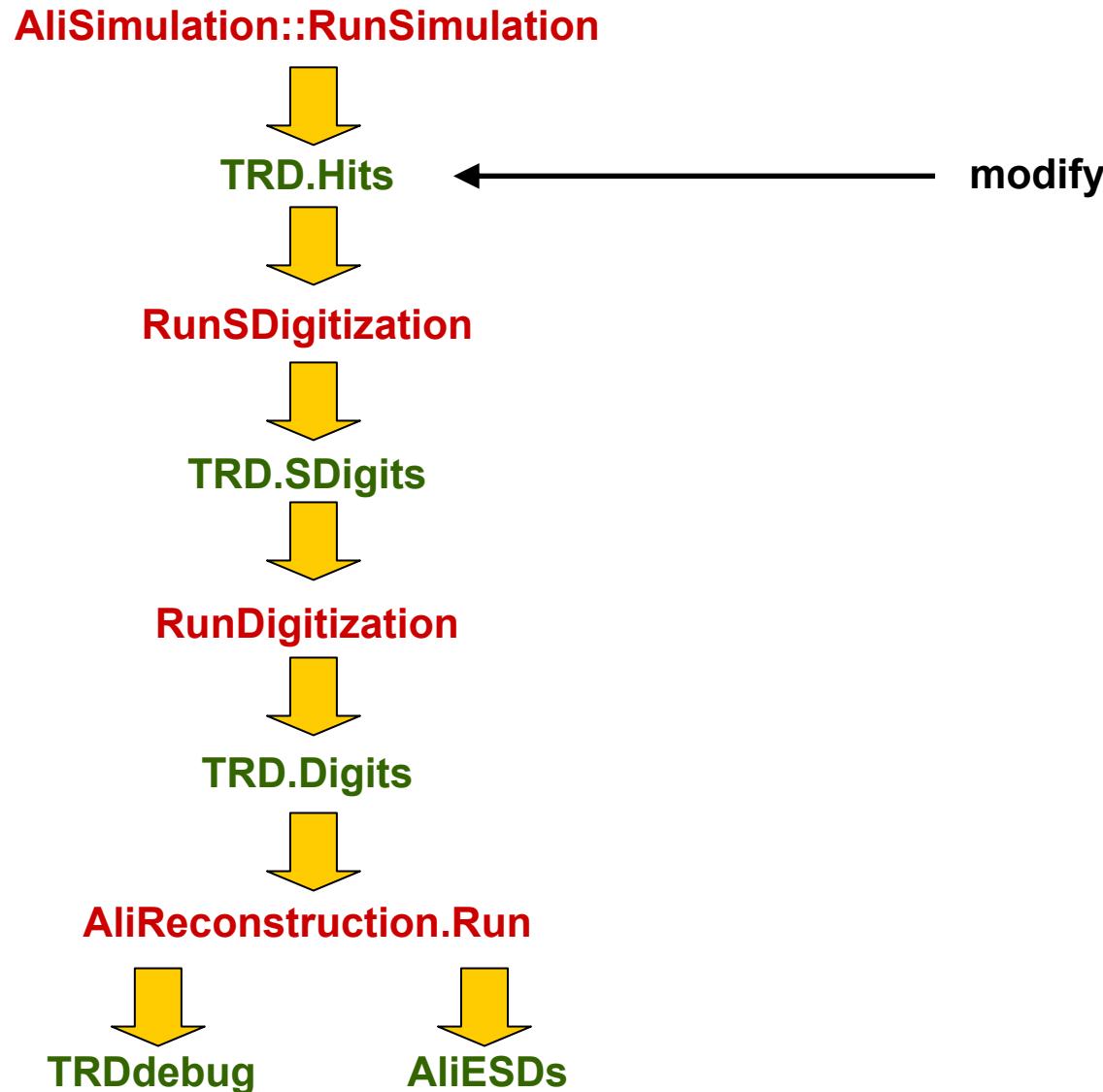
(mis)alignment by modifying geometry
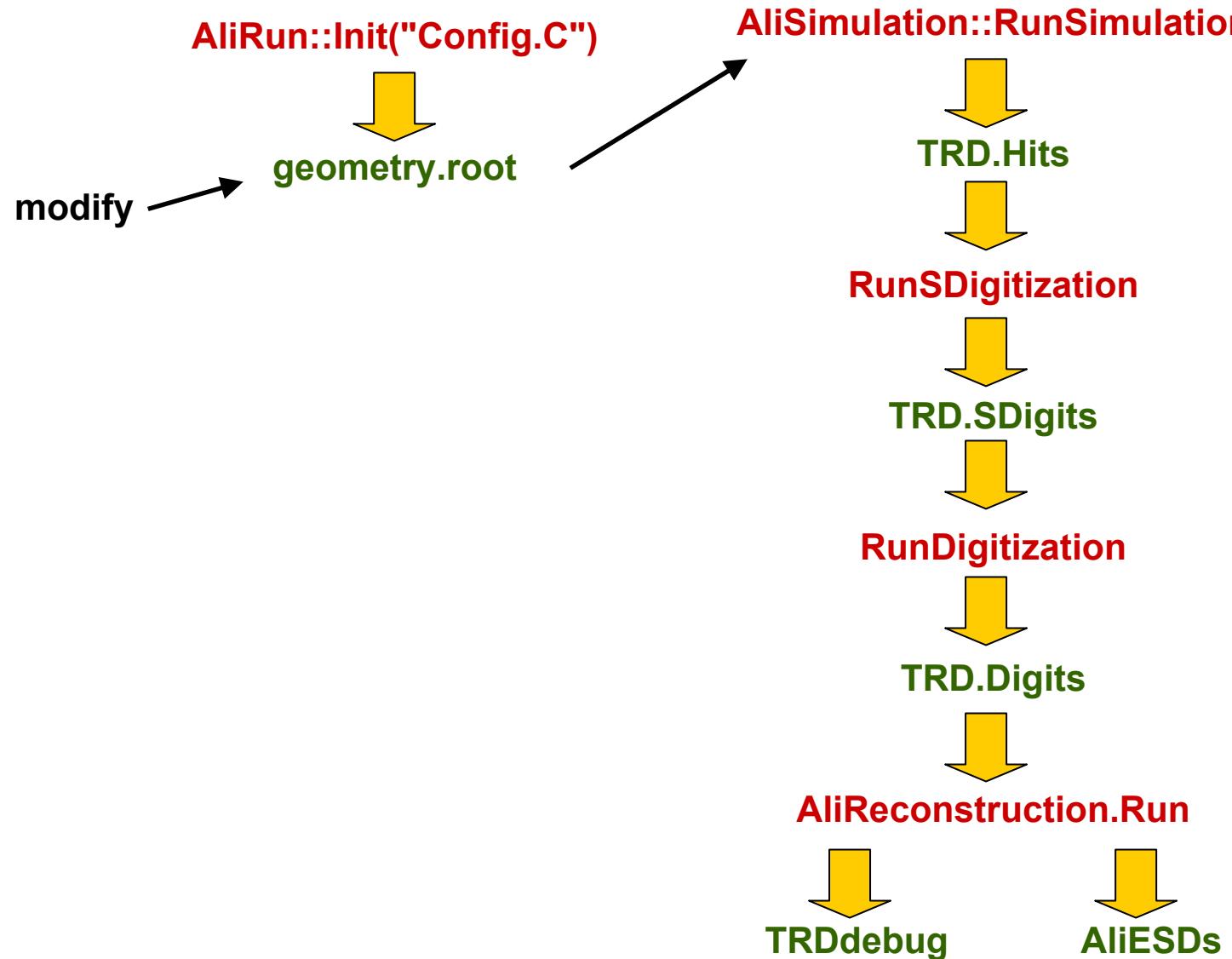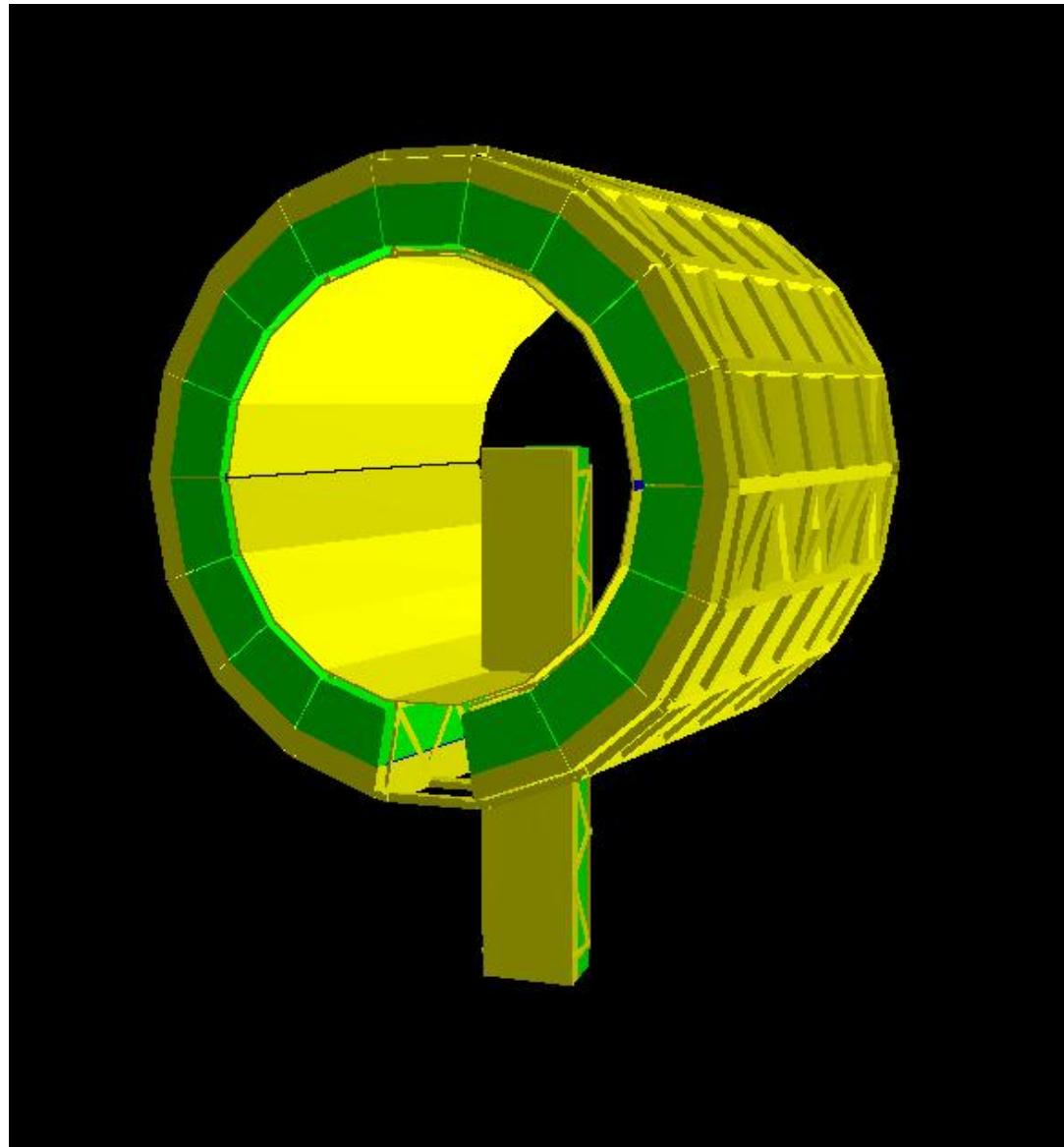
AliRun::Init("Config.C")   **AliSimulation::RunSimulation**

geometry.root

modify

TRD.Hits

RunSDigitization

TRD.SDigits

RunDigitization

TRD.Digits

**AliReconstruction.Run**

TRDdebug   **AliESDs**
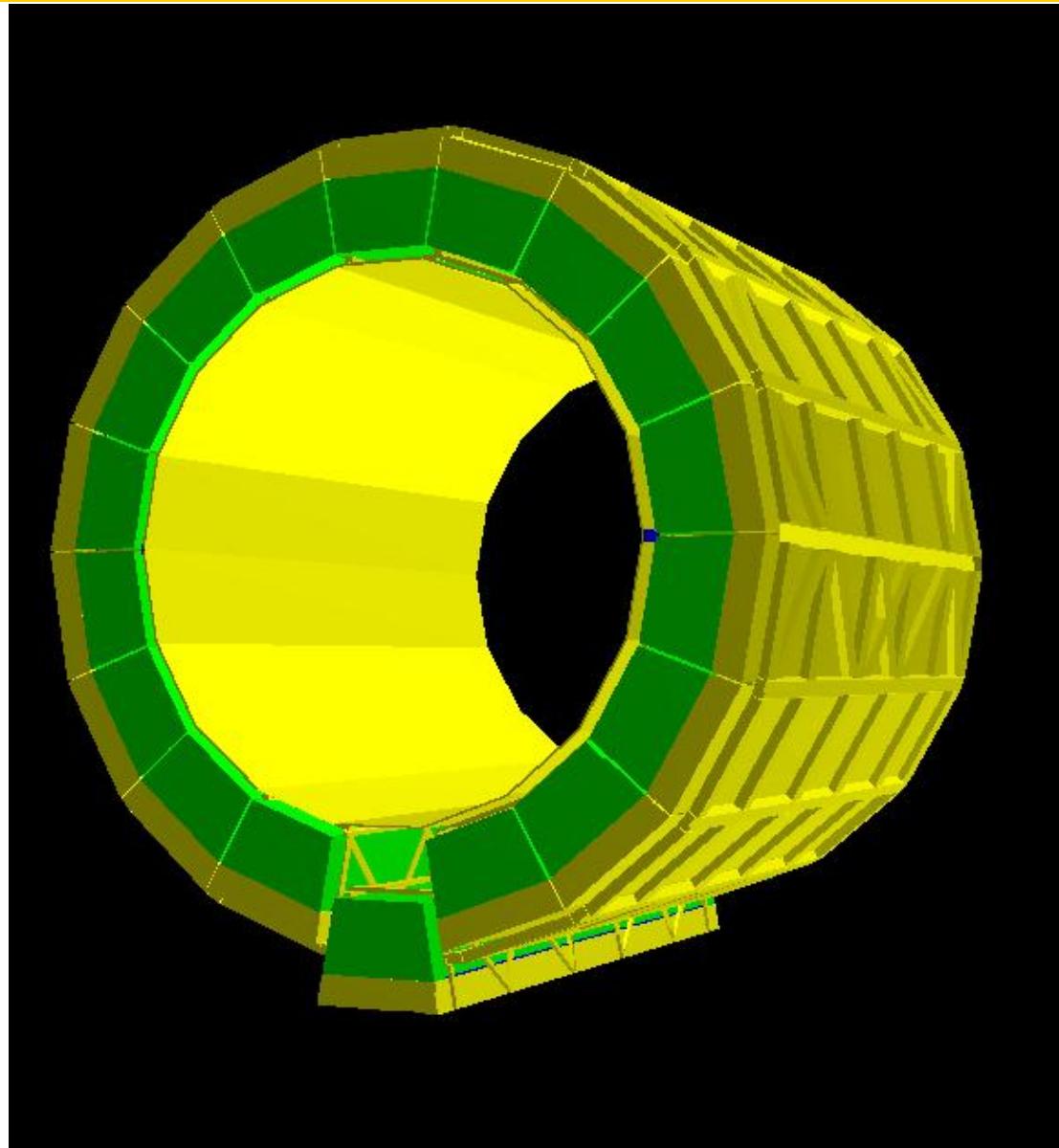
# first attempt to modify geometry

# second attempt to modify geometry

third attempt to modify geometry
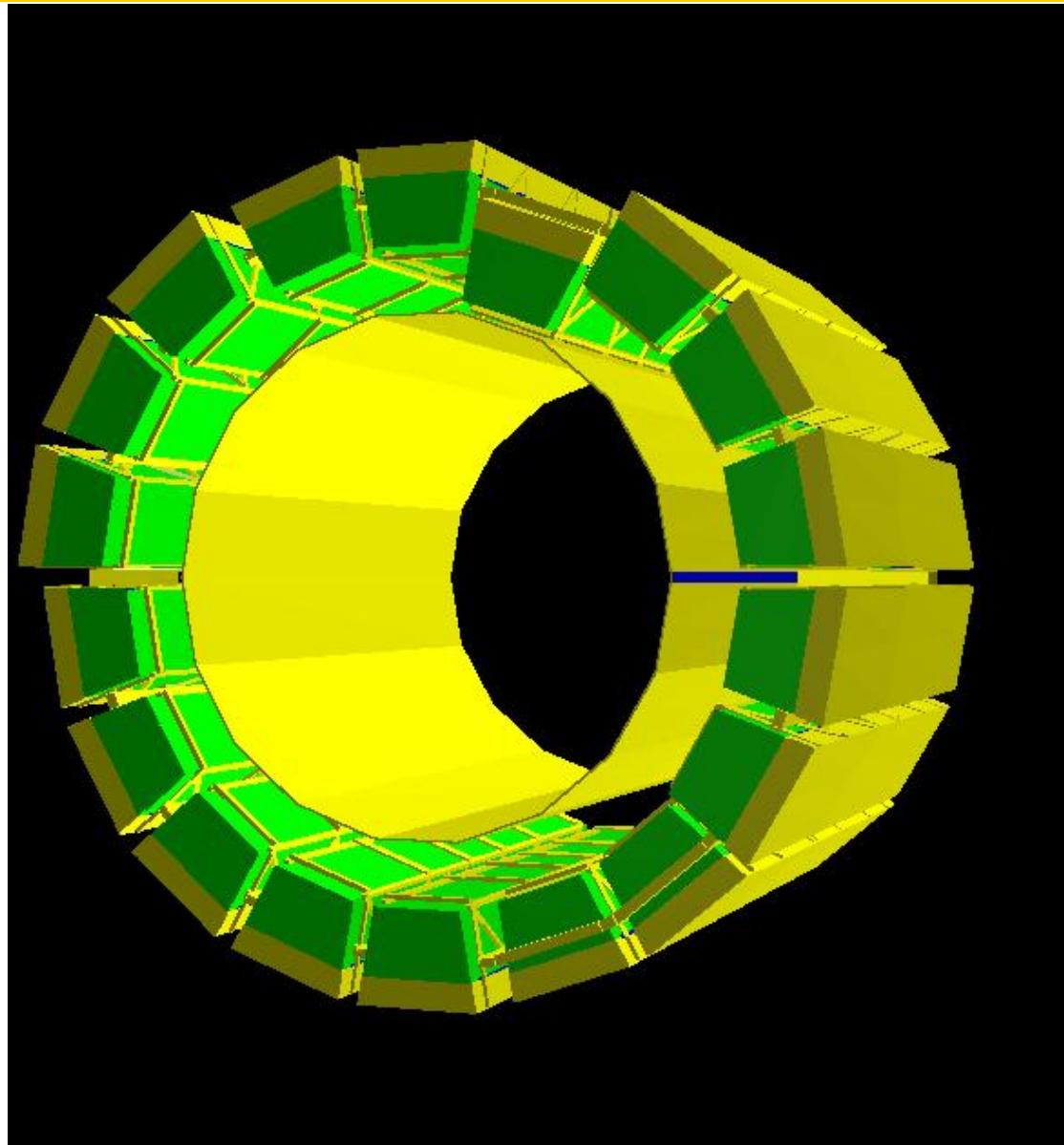
hits with nominal geometry
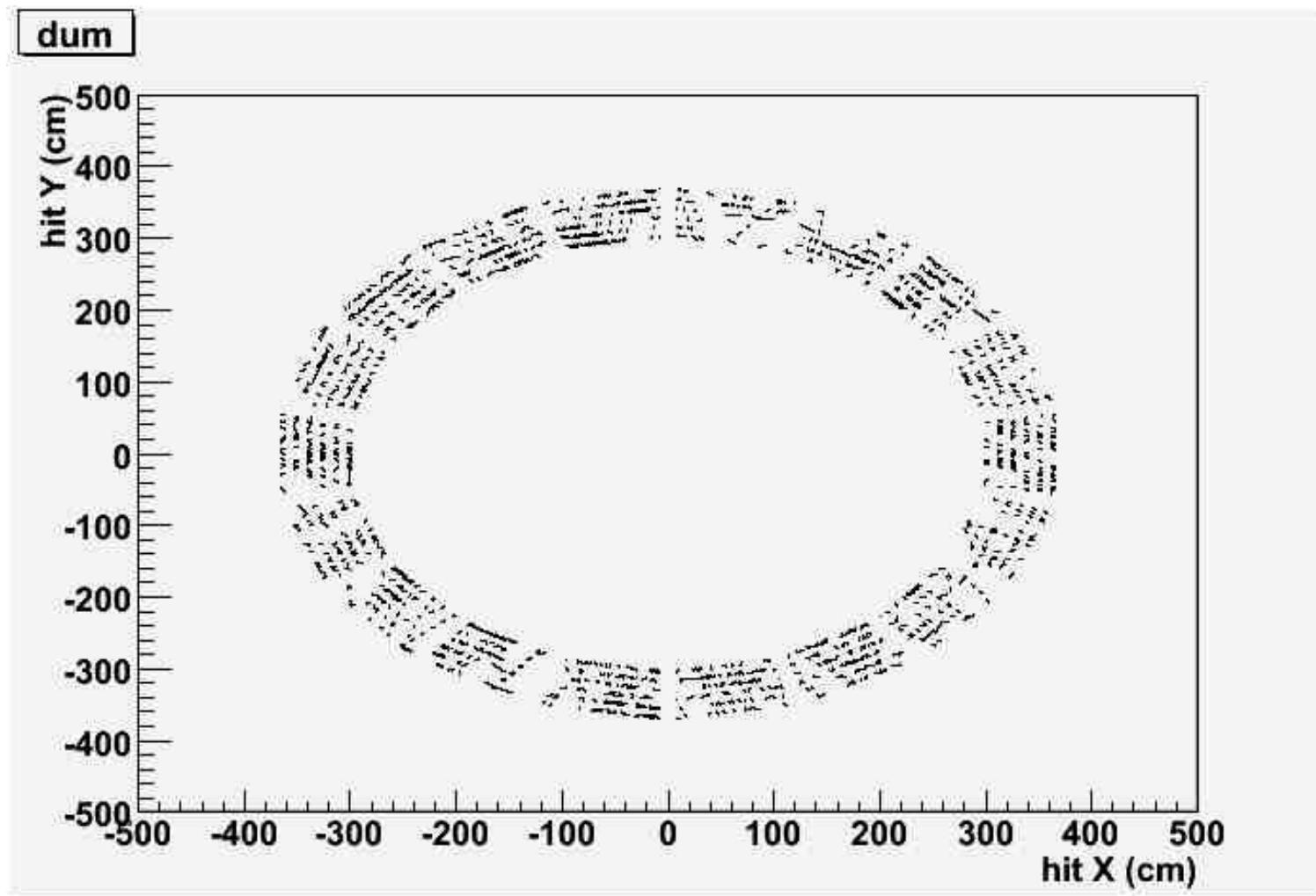
hits with modified geometry
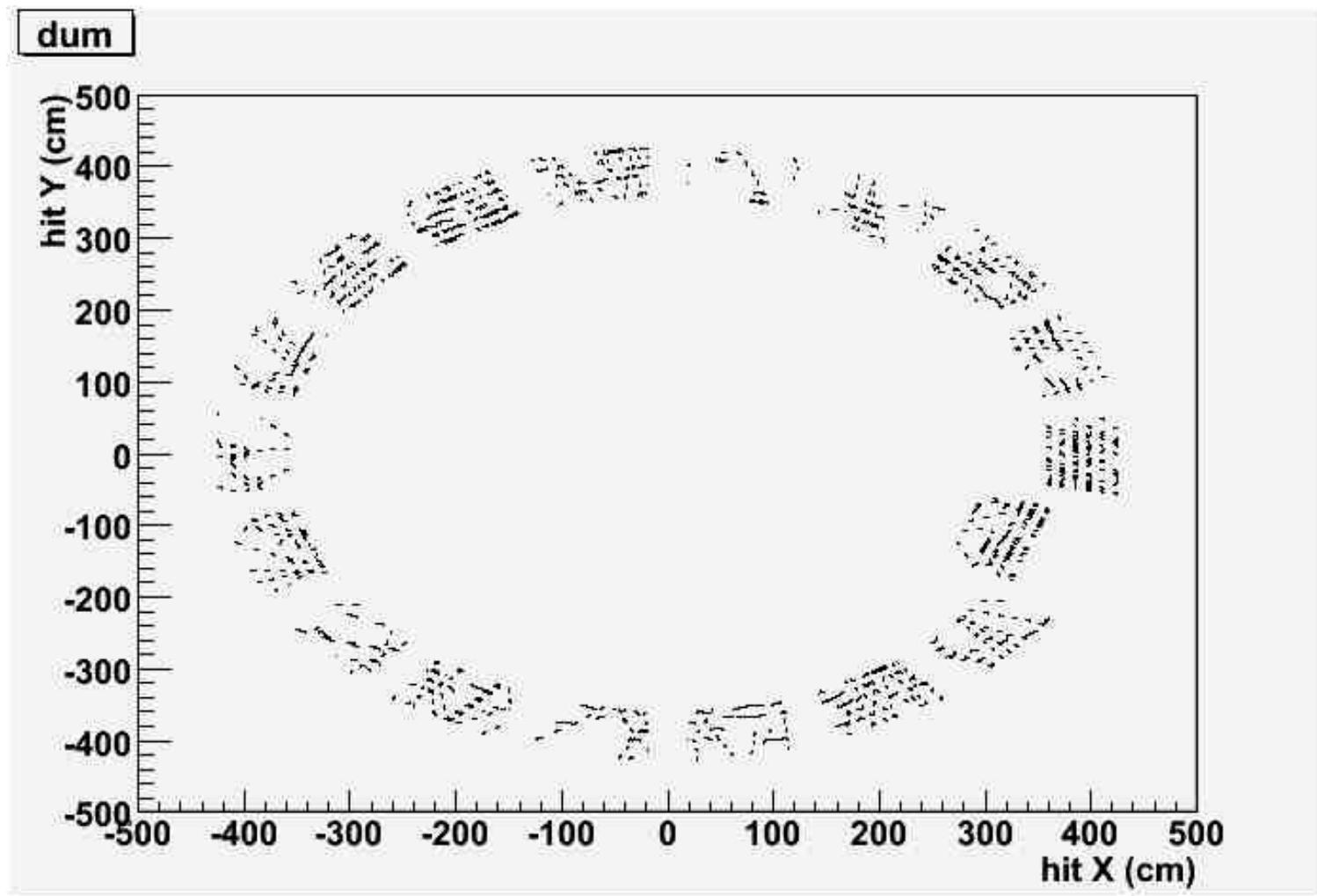
"suggestions" from the offline people at CERN expressed in the phone conference on 27-Jan

reduce volume of calibration parameters

define where and how the front-end parameters should come from

implement supermodules as alignable volumes

implement the alignment parameters in the simulation and reconstruction software (till the end of February!)

report in the Alice offline week in March

prepare routines which we want to be run online

parameters for the "shuttle" (first guess, submitted)

nr pars	what	unit	where from
1	clock frequency	MHz	from FEE or config DB
1	number of timebins	--	from FEE or config GB
1e4	list of masked channels	--	from FEE or config DB
1e3	list of active chambers	--	from FEE or config DB
1.2e6	ADC thresholds	ADC count	from FEE or config DB
1	drift velocity	cm/µs	from drift velocity monitor
1	gas composition	--	from gas system
18x32	temperature	centigrade	from DCS
1080	chamber anode currents	µA	from HV power supply
1080	chamber drift currents	µA	from HV power supply
1080	chamber anode voltage	V	from HV power supply
1080	chamber drift voltage	V	from HV power supply

parameters for the "shuttle", cont.

nr pars	what	unit	where from
180	low voltage voltage	V	from LV power supply
180	low voltage current	A	from LV power supply
180	low voltage sensor	V	from LV power supply
180	low voltage bar voltage	V	from LV power supply
1	atmospheric pressure	mbar	?
1	luminosity	?	?
1	magnetic field	T or A	?
?	pretrigger	?	?