

how to proceed (October 2005)

- 🌐 **specify what we want from the survey group during rail installation (Bernd)**
- 🌐 **specify what needs to be collected by the “shuttle”**
- 🌐 **software modifications:**
 - use the new classes for the detector positions in simulation and reconstruction (Jan Fiete)
 - use the database to store and retrieve the geometry parameters (Jan Fiete)
 - develop local TRD tracking (Frederick)
 - store additional variables: 6 residuals of local TRD track (Frederick)
 - store additional variables: 6 residuals of global track (DM from Marian)
- 🌐 **practice misalign-align (DM)**
- 🌐 **develop alignment procedure using residuals (DM)**

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/ μ s	from drift velocity monitor
1	gas composition	--	from gas system
18x32	temperature	centigrade	from DCS
1080	chamber anode currents	μ A	from HV power supply
1080	chamber drift currents	μ A	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	?	?