TRD alignment status, March 2007

- cosmic data, converted to AliRoot format; ongoing effort to get the standard offline reconstruction and alignment run on it
- rough survey of chambers in Supermodule 8 done before installation, will be used for verifying the cosmic alignment
- rough survey of Supermodule 8 in Dec-2006, good for practicing the procedures, not good for true alignment
- AliTRDalignment new tool for manipulating TRD alignment sets

on the way to analyze cosmics in AliRoot – standalone TRD tracking (here still with simulated data)



central barrel alignment procedure applied to TRD



central barrel alignment procedure applied to TRD



rough survey of chambers in the first supermodule - chamber displacements ΔX in mm in phi

A-2106									
	А	В	Β'	С	D				
L5			$\textbf{2.47} \pm \textbf{0.23}$						
L4					-3.0 ± 2.2				
L3		$\textbf{-2.93}\pm0.71$		$\textbf{-2.16} \pm \textbf{0.25}$	$\textbf{-3.0}\pm\textbf{1.4}$				
L2		0.15 ± 0.35			0.5 ± 1.4				
L1		$\textbf{2.10} \pm \textbf{0.21}$		$\textbf{1.76} \pm \textbf{0.52}$					
LO		-1.55 ± 0.88		$\textbf{-2.33}\pm0.35$					

A aida

C-side

	А	В	Β'	С	D
L5			$\textbf{-4.22}\pm0.12$		



- \otimes somewhat worse than the expected $\Delta X=1$ mm
- ø parallel shift of a whole layer rather than rotation

AliTRDalignment class - new tool to manipulate TRD alignment sets



- converting between different file formats (s. above)
- ø generating random sets for simulation
- reporting and visualization