Experience with Tolerances of delivered be chambers

Chamber	Year delivered	Estimated Mech Tol.	Achieved
ATLAS VI			
(HCVC1I_041-MN000001)	2012	1.95 mm	0.1 (0.2) mm*
CMS			
(HCVC5C_028-MN000001)	2014	1.15 mm	0.9 (1.0) mm
LHCb			
(HCVC8B_149-MN000001)	2012	1.5 mm	0.35 (0.45) mm
CMS (old)	2006	-	0.55 (?) mm

Tolerances in "achieved" include ovalisation (in brackets), which was measured at around 0.1 mm in all cases.

In all cases the achieved tolerances have been better than the estimates



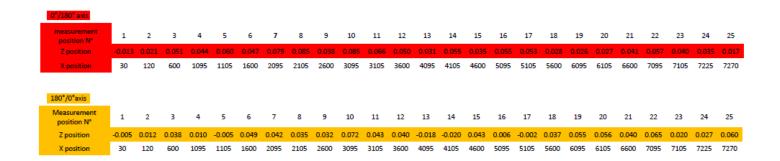
^{*}Tolerance was based on installation condition in the experiment

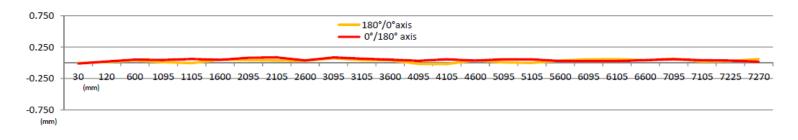
Experience with Tolerances of delivered be chambers - ATLAS

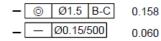


MEASUREMENT RESULTS









3.12.2012

RIGAUD Jean-Philippe - EN-MME/MM - BERYLLIUM BEAM PIPE- EDMS.1255054

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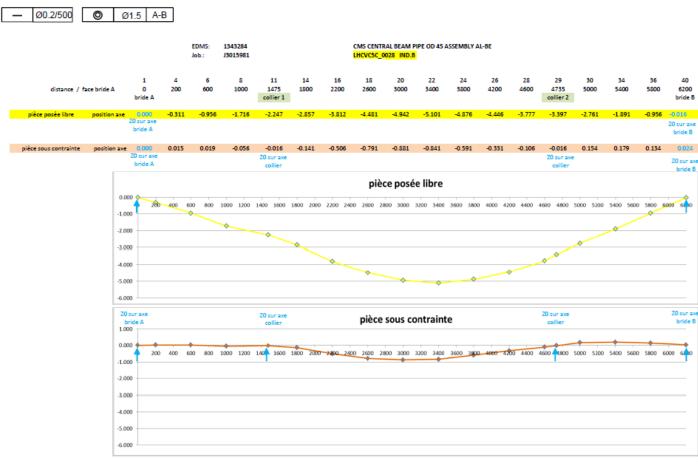


Experience with Tolerances of delivered be chambers - CMS



RESULTATS DE MESURE







RIGAUD Jean-Philippe – CMSCENTRAL BEAM PIPE OD45 ASSEMBLY-EDMS.1343284

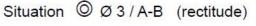


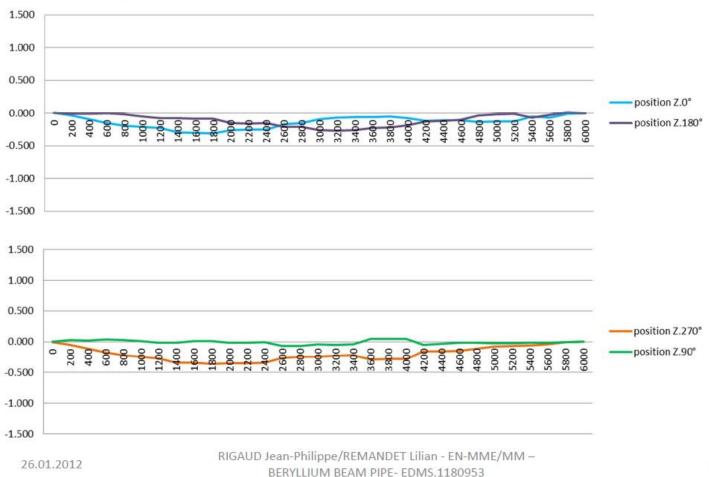
Experience with Tolerances of delivered be chambers - LHCb



RESULTATS DE MESURE









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Experience with Tolerances of delivered be chambers – CMS (old)

