

Misalignment scales for Detector Elements with tag "MisAlCh1"

Notes

- Scales are the "sigma" of a Gaussian.
 - The width of the Gaussian is given by the product: $\text{sigmaForGaussianMisAlign} * \text{misAlignValue}$, where misAlignValue is the misalignment value given below.
 - The units are [mm] for translations (`_trans_`) and [mrad] for rotations (`_rot_`).
 - You can find distributions of the misalignments in this ROOT file: `MisAlCh1.root`
-

```

sigmaForGaussianMisAlign = 1.0

#-----
# Scale of misalignments for the Velo
#-----
veloglo_trans_scale = [0.0, 0.0, 0.0]
velohalf_trans_scale = [0.100, 0.100, 0.100]
velomod_trans_scale = [0.030, 0.030, 0.050]
velodet_trans_scale = [0.010, 0.010, 0.020]

veloglo_rot_scale = [0.0, 0.0, 0.0]
velohalf_rot_scale = [0.300, 0.300, 0.500]
velomod_rot_scale = [1.0, 1.0, 1.0]
velodet_rot_scale = [0.5, 0.5, 0.1]

#-----
# Scale of misalignments for the IT
#-----
itglo_trans_scale = [0.500, 0.500, 0.500]
itstat_trans_scale = [0.500, 0.500, 0.500]
itbox_trans_scale = [0.025, 0.100, 0.250]
itlayer_trans_scale = [0.250, 0.100, 0.500]
itladder_trans_scale = [0.050, 0.050, 0.100]

itglo_rot_scale = [0.100, 0.100, 0.100]
itstat_rot_scale = [0.100, 0.100, 0.100]
itbox_rot_scale = [1.0, 1.0, 0.5]
itlayer_rot_scale = [1.0, 1.0, 0.5]
itladder_rot_scale = [1.0, 1.0, 0.5]

#-----
# Scale of misalignments for the OT
#-----
otglo_trans_scale = [0.200, 0.200, 0.200]
othalf_trans_scale = [0.200, 0.200, 0.200]
otstat_trans_scale = [0.200, 1.0, 0.200]
othalfstat_trans_scale = [0.200, 1.00, 0.200]
otlayer_trans_scale = [0.100, 0.200, 0.100]
othalflayer_trans_scale = [0.100, 0.200, 0.100]
otmod_trans_scale = [0.030, 0.050, 0.050]

otglo_rot_scale = [0.020, 0.010, 0.020]
othalf_rot_scale = [0.020, 0.010, 0.020]
otstat_rot_scale = [0.1, 0.2, 0.1]
othalfstat_rot_scale = [0.1, 0.2, 0.1]
otlayer_rot_scale = [0.010, 0.010, 0.030]
othalflayer_rot_scale = [0.020, 0.010, 0.030]
otmod_rot_scale = [0.020, 0.020, 0.010]

#-----
# Scale of misalignments for the TT

```

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```
#-----  
ttglo_trans_scale = [0.200, 0.200, 0.500]  
ttstat_trans_scale = [0.050, 0.100, 0.100]  
tthalfstat_trans_scale = [0.050, 0.100, 0.100]  
ttlayer_trans_scale = [0.050, 0.100, 0.050]  
tthalflayer_trans_scale = [0.050, 0.100, 0.050]  
ttmod_trans_scale = [0.050, 0.100, 0.050]  
tthalfmod_trans_scale = [0.050, 0.100, 0.050]  
  
ttglo_rot_scale = [0.300, 0.050, 0.050]  
ttstat_rot_scale = [0.050, 0.500, 0.050]  
tthalfstat_rot_scale = [0.050, 0.500, 0.050]  
ttlayer_rot_scale = [0.050, 0.500, 0.050]  
tthalflayer_rot_scale = [0.050, 0.500, 0.050]  
ttmod_rot_scale = [0.050, 0.500, 0.300]  
tthalfmod_rot_scale = [0.050, 0.500, 0.300]
```

-- StevenBlusk - 20 Nov 2007

This topic: LHCb > MisAlCh1

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