

FDC Calibrations

1 New Tables

FDC/strip_gains,	
1 – 10368	gain correction factor

FDC/strip_timing_offsets	
1 – 10368	timing offset (ns)

FDC/wire_timing_offsets	
1 – 2304	timing offset (ns)

FDC/alignment	
24 rows	
dx dy dphi	alignment constants (per wire plane)

2 Old Tables

FDC/fdc_parms		
FDC_DRIFT_SPEED	.0055	electron drift velocity
FDC_WIRE_DEAD_ZONE_RADIUS	3.5	dead wire radius
FDC_STRIP_DEAD_ZONE_RADIUS	5.	other dead wire radius
FDC_ACTIVE_AREA_OUTER_RADIUS	48.5	
FDC_ANODE_CATHODE_SPACING	0.5	
FDC_TWO_HIT_RESOL	25.	
FDC_WIRES_PER_PLANE	96	
FDC_WIRE_SPACING	1.	
FDC_STRIPS_PER_PLANE	192	
FDC_STRIP_SPACING	0.5	
FDC_STRIP_GAP	0.1	
FDC_MAX_HITS	100	
FDC_K2	1.15	
FDC_STRIP_NODES	3	
FDC_THRESH_KEV	1.	threshold in keV
FDC_THRESH_STRIPS	0.001	threshold in fC
FDC_ELECTRON_CHARGE	1.6022e-4	electron charge in fC
FDC_DIFFUSION_COEFF	1.1e-6	diffusion speed
FDC_TDRIIFT_SIGMA	1.0e-9	The error on the drift time in the FDC.
FDC_CATHODE_SIGMA	150.	The error in the distance along the wire as measured by the cathodes.
FDC_THRESHOLD_FACTOR	4.	number of sigmas above pedestal
FDC_PED_NOISE	0.2	used to smear the cathode ADC
FDC_TIME_WINDOW	1000.	Time window for acceptance of FDC hits (ns)
FDC_HIT_DROP_FRACTION	0.	Fraction of FDC hits to randomly drop

FDC/fdc_drift2	
1 × 140	parameterized drift function

FDC/lorentz_deflections — 840 rows	
x	Parameterization of lorentz deflections
z	
bx	
bz	
nx	
nz	