Drift Chamber Calibration Status

Sectors : six azimuthal segments Three regions of two superlayers each Superlayer : six layers of sense wires with the exception Region 2 of superlayer 1 which has only 4 layers

Each superlayer of each sector is calibrated separately For a total of 36 parameters

FITDOCA – (Distance of Closest Approach) The distance from the fitted track to the sense wire

CALCDOCA – calculated distance from the sense wire to the track

RESI = abs(FITDOCA) – abs(CALCDOCA) Also known as time residual

Residuals are the primary means of measuring the resolution of the drift chambers. Both FITDOCA and CALCDOCA are signed quantities.



List of runs calibrated

- Calibrated 11 runs so far
- 61107 -> 60600 61215
- 61440 -> 61216 61482
- 61489 -> 61483 61500
- 61535 -> 61501 61600
- Constants written to the RunIndex table calib_user.RunIndexeg6_seema

This table also has Lamiaa's latest TOF constants.

- 61625 -> 61601 61682
- 61695 -> 61683 61700
- 61731 -> 61701 61777
- 61778 -> 61778 61782
- 61819 -> 61791 61850
- 61860 -> 61851 61930
- 61935 -> 61931 62000

Could not calibrate run number 61790! Problem with the BOS files!

61790 -> 61783-61790

Run Number 61107

Time resi	dual means	(microns)					
	SL1	SL2	SL3	SL4	SL5	SL6	avg.
Secl	17	32	-1	-19	-30	-42	-7
Sec2	21	36	-27	-36	-25	-56	-14
Sec3	16	28	-1B	-26	-4 B	-34	-13
Sec4	17	31	-5	-17	-25	-51	-8
Sec5	21	36	-4	-11	-2B	-26	-2
Sec6	14	25	-19	-34	-4 D	-55	-18
avg.	18	32	-12	-24	-33	-44	-10
Total wid	th (microns)	1					
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	307	350	4 D 4	387	460	490	398
Sec2	339	344	414	396	51B	577	421
Sec3	331	332	376	466	477	582	418
Sec4	308	325	350	357	422	523	373
Sec5	363	329	365	373	477	504	397
Sec6	422	303	382	446	529	473	416
*avg.	342	330	379	401	47B	521	403

Run Number 61440

	SL1	SL2	SL3	SL4	SL5	SL6	avg.
Secl	16	11	-10	D	-90	-76	-24
Sec2	11	18	-7	-11	-7	-35	-5
Sec3	58	14	5	-3	-2	-36	5
Sec4	19	19	-1	-6	-15	-16	o
Sec5	13	19	-2	— В	-87	-57	-20
Sec6	36	25	-6	-24	-85	-64	-19
avg.	25	18	-3	-9	-4 B	-47	-10
Total wi	dth (microns)						
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	352	301	356	336	452	480	372
Sec2	361	308	373	351	450	518	387
Sec3	408	287	386	482	442	516	405
Sec4	287	301	357	347	408	469	348
Sec5	373	320	383	389	468	487	389
Sec6	396	287	369	430	533	456	398
*avg.	354	300	367	387	457	486	382

Run Number 61489

	ST 1	81.0	PT 2	DT 4	DTE	DIC	
	SLI	512	272	514	272	210	avg.
Secl	16	23	D	-13	-23	-13	-1
Sec2	26	35	-24	-32	-31	-36	-10
Sec3	19	29	-16	-21	-41	-13	-7
Sec4	21	29	-2	-15	-37	-В	-2
Sec5	27	36	— В	-10	-32	-31	-3
Sec6	57	28	-19	-29	-2B	-36	-4
avg.	28	30	-11	-20	-32	-23	-4
Total wid	ith (microns)						
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	SL1 332	SL2 356	SL3 424	SL4 412	SL5 479	SL6 505	*avg. 417
Secl Sec2	SL1 332 363	SL2 356 352	SL3 424 434	SL4 412 409	SL5 479 532	SL6 505 609	*avg. 417 442
Secl Sec2 Sec3	SL1 332 363 347	SL2 356 352 341	SL3 424 434 390	SL4 412 409 492	SL5 479 532 478	SL6 505 609 585	*avg. 417 442 430
Secl Sec2 Sec3 Sec4	SL1 332 363 347 323	SL2 356 352 341 330	SL3 424 434 390 372	SL4 412 409 492 382	SL5 479 532 478 428	SL6 505 609 585 540	*avg. 417 442 430 389
Secl Sec2 Sec3 Sec4 Sec5	SL1 332 363 347 323 371	SL2 356 352 341 330 336	SL3 424 434 390 372 397	SL4 412 4D9 492 382 411	SL5 479 532 478 428 493	SL6 505 609 585 540 518	*avg. 417 442 430 389 415
Secl Sec2 Sec3 Sec4 Sec5 Sec6	SL1 332 363 347 323 371 428	SL2 356 352 341 330 336 313	SL3 424 434 390 372 397 406	SL4 412 409 492 382 411 452	SL5 479 532 478 428 493 536	SL6 505 609 585 540 518 490	*avg. 417 442 430 389 415 429

Run Number 61535

	SL1	SL2	SL3	SL4	SL5	SL6	avg.
Sec1	15	24	-30	-25	-31	-58	-17
Sec2	22	25	-2B	-36	-51	-63	-21
Sec3	22	28	-19	-30	-22	-34	-9
Sec4	16	32	-14	-20	-15	-55	-9
Sec5	16	24	-9	-16	-85	-56	-21
Sec6	36	21	-24	-3B	-64	-23	-15
avg.	21	26	-21	-27	-45	-4 B	-15
Total wid	ith (microns))					
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Sec1	350	372	427	421	497	526	429
Sec2	387	365	452	428	549	615	459
Sec3	356	357	397	517	497	601	447
Sec4	343	357	387	396	450	545	406
Sec5	387	343	401	421	516	536	429
Sec5 Sec6	387 438	343 330	401 419	421 479	516 566	536 509	429 447

Run Number 61625

	ST.1	ST.2	51.3	51.4	81.5	51.6	-107
	5111	5112		514		510	avy.
Secl	14	19	-32	-33	-26	-4B	-17
Sec2	12	12	-2B	-31	-41	-45	-20
Sec3	25	14	-13	-27	-20	-23	-7
Sec4	17	34	-9	-15	-5	-30	-1
Sec5	19	26	-в	-17	-66	-46	-15
Sec6	43	21	-18	-34	-43	-38	-11
avg.	22	21	-18	-26	-33	-3B	-12
Total widt	th (microns)						
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	342	372	406	437	481	510	423
Sec2	377	357	437	419	530	590	444
Sec3	354	344	390	506	490	583	437
Sec4	334	347	374	388	435	525	394
Sec5	380	345	404	429	499	525	426
Sect	420	217	406	460	546	198	475
DECO	430	317	406	400	240	490	433

Run Number 61695

	SL1	SL2	SL3	SL4	SL5	SL6	avg.
Sec1	22	29	-24	-19	-42	-4 D	-12
Sec2	12	26	-29	-33	-52	-57	-22
Sec3	40	25	-15	-25	-53	-29	-9
Sec4	35	30	— В	-16	-15	-24	o
Sec5	32	34	-6	-15	-71	-39	-10
Sec6	29	27	-18	-35	-55	-51	-17
avg.	28	29	-17	-24	-4 B	-40	-12
T-t-1	dth (minner)						
Total wi	dth (microns))					
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	327	352	404	389	457	489	402
Sec2	349	342	426	403	514	578	427
Sec3	329	324	372	482	466	557	414
Sec4	319	329	360	364	423	520	379
Sec5	358	322	385	400	488	499	406
Sec6	409	303	392	445	536	474	419
*avg.	347	328	387	412	47B	517	407

Run Number 61731

SL1SL2SL3SL4SL5SL6avg.Sec11335 -32 -21 -43 -36 -14 Sec22518 -30 -34 -41 -71 -22 Sec33524 -15 -23 -48 -30 -9 Sec42628 -10 -20 -55 -26 -9 Sec53635 -9 -11 -40 -54 -7 Sec63525 -25 -33 -34 -24 -9 avg.2928 -20 -24 -43 -40 -12 Total width (microns)St1SL2SL3SL4SL5SL6*avg.Sec1342371415402476512416Sec2376359445413537597449Sec3351345386510495583435Sec4330340378376448527394Sec5384342397410506526424Sec6423324402455555489431*avg.365345402424499537424								
Sec1 13 35 -32 -21 -43 -36 -14 Sec2 25 18 -30 -34 -41 -71 -22 Sec3 35 24 -15 -23 -48 -30 -9 Sec4 26 28 -10 -20 -55 -26 -9 Sec5 36 35 -9 -11 -40 -54 -7 Sec6 35 25 -25 -33 -34 -24 -9 avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) SL1 SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410		SL1	SL2	SL3	SL4	SL5	SL6	avg.
Sec2 25 18 -30 -34 -41 -71 -22 Sec3 35 24 -15 -23 -48 -30 -9 Sec4 26 28 -10 -20 -55 -26 -9 Sec5 36 35 -9 -11 -40 -54 -7 Sec6 35 25 -25 -33 -34 -24 -9 avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) SL1 SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 4	Secl	13	35	-32	-21	-43	-36	-14
Sec3 35 24 -15 -23 -48 -30 -9 Sec4 26 28 -10 -20 -55 -26 -9 Sec5 36 35 -9 -11 -40 -54 -7 Sec6 35 25 -25 -33 -34 -24 -9 avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) - - - - - -9 Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 <td>Sec2</td> <td>25</td> <td>18</td> <td>-30</td> <td>-34</td> <td>-41</td> <td>-71</td> <td>-22</td>	Sec2	25	18	-30	-34	-41	-71	-22
Sec4 26 28 -10 -20 -55 -26 -9 Sec5 36 35 -9 -11 -40 -54 -7 Sec6 35 25 -25 -33 -34 -24 -9 avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) - - - - - - - -40 -12 Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 <	Sec3	35	24	-15	-23	-4B	-30	-9
Sec5 36 35 -9 -11 -40 -54 -7 Sec6 35 25 -25 -33 -34 -24 -9 avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) SL1 SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec4	26	28	-10	-20	-55	-26	-9
Sec6 35 25 -25 -33 -34 -24 -9 avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) SL1 SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec5	36	35	-9	-11	-4 D	-54	-7
avg. 29 28 -20 -24 -43 -40 -12 Total width (microns) SL1 SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec6	35	25	-25	-33	-34	-24	-9
Stal width (microns) Stal SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	avg.	29	28	-20	-24	-43	-4 D	-12
SL1 SL2 SL3 SL4 SL5 SL6 *avg. Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Total wi	dth (microns))					
Sec1 342 371 415 402 476 512 416 Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424		SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Sec2 376 359 445 413 537 597 449 Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Secl	342	371	415	402	476	512	416
Sec3 351 345 386 510 495 583 435 Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec2	376	359	445	413	537	597	449
Sec4 330 340 378 376 448 527 394 Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec3	351	345	386	510	495	583	435
Sec5 384 342 397 410 506 526 424 Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec4	330	340	378	376	44B	527	394
Sec6 423 324 402 455 555 489 431 *avg. 365 345 402 424 499 537 424	Sec5	384	342	397	410	506	526	424
*avg. 365 345 402 424 499 537 424	Sec6	423	324	402	455	555	489	431
	*avg.	365	345	402	424	499	537	424

Run Number 61778

Time res	idual means (microns)					
	SL1	SL2	SL3	SL4	SL5	SL6	avg.
Secl	18	38	-2B	-15	-36	-33	-9
Sec2	11	25	-22	-31	-24	-4B	-14
Sec3	48	20	-13	-22	-47	-20	-5
Sec4	27	32	— В	-14	-50	-4 B	-10
Sec5	34	31	-б	-14	-21	-42	-3
Sec6	40	21	-12	-30	-58	-56	-16
avg.	30	28	-15	-21	-39	-41	-9
Total wi	dth (microns)						
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	346	368	414	397	461	497	412
Sec2	373	349	429	413	523	586	440
Sec3	354	342	391	498	487	580	435
Sec4	329	343	374	373	436	516	390
Sec5	379	344	401	408	482	513	414
Sec6	444	318	404	450	553	482	431
*avg.	370	343	400	420	4 B B	527	420

Run Number 61819

	SL1	SL2	SL3	SL4	SL5	SL6	avg.
Secl	28	30	-24	-1B	-33	-2B	-7
Sec2	28	24	-30	-4 D	-65	-4B	-22
Sec3	45	21	-19	-24	-29	-24	-4
Sec4	44	27	-7	-16	-15	-43	-1
Sec5	38	32	- 9	-14	-69	-53	-12
Sec6	56	22	-19	-4 D	-62	-2B	-12
avg.	40	26	-1B	-25	-45	-37	-10
Total wid	dth (microns)						
	SLI	SLZ	SL3	SL4	SL5	SL6	*avg.
Secl	336	360	405	399	468	490	405
Sec2	375	348	438	416	522	591	441
Sec3	352	342	397	511	496	582	435
		242					
Sec4	338	332	367	374	435	527	390
Sec4 Sec5	338 377	332 339	367	374 400	435 497	527 510	390 416
Sec4 Sec5 Sec6	338 377 441	332 339 317	367 392 402	374 400 450	435 497 559	527 510 478	390 416 432

Run Number 61860

	GT 1	01.0	PT 2	DT 4	DTE	DT C	
	271	SLZ	272	514	272	210	avg.
Sec1	33	28	-16	-12	-28	-30	-4
Sec2	21	21	-27	-24	-50	-61	-20
Sec3	36	21	-14	-19	-46	-7B	-16
Sec4	25	25	— В	-6	-2	-35	0
Sec5	27	26	-4	-3	-22	-45	-3
Sec6	35	20	-13	-25	-27	-51	-10
avg.	29	23	-14	-15	-29	-50	-9
Total wid	dth (microns) SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Total wid Secl	lth (microns) SL1 358	SL2 377	SL3 420	SL4 408	SL5 475	SL6 526	*avg. 424
Total wid Secl Sec2	dth (microns) SL1 358 384	SL2 377 369	SL3 420 438	SL4 408 414	SL5 475 522	SL6 526 597	*avg. 424 448
Total wid Secl Sec2 Sec3	dth (microns) SL1 358 384 367	SL2 377 369 350	SL3 420 438 405	SL4 408 414 530	SL5 475 522 492	SL6 526 597 589	*avg. 424 448 447
Total wid Sec1 Sec2 Sec3 Sec4	dth (microns) SL1 358 384 367 342	SL2 377 369 350 352	SL3 420 438 405 384	SL4 4DB 414 530 385	SL5 475 522 492 443	SL6 526 597 589 543	*avg. 424 448 447 404
Total wid Sec1 Sec2 Sec3 Sec4 Sec5	dth (microns) SL1 358 384 367 342 400	SL2 377 369 350 352 353	SL3 420 438 405 384 419	SL4 408 414 530 385 425	SL5 475 522 492 443 492	SL6 526 597 589 543 527	*avg. 424 448 447 404 433
Total wid Sec1 Sec2 Sec3 Sec4 Sec5 Sec6	dth (microns) SL1 358 384 367 342 400 449	SL2 377 369 350 352 353 329	SL3 420 438 405 384 419 412	SL4 408 414 530 385 425 453	SL5 475 522 492 443 492 541	SL6 526 597 589 543 527 496	*avg. 424 448 447 404 433 440

Run Number 61935

	SLI	SL2	SL3	SL4	SL5	SL6	avg.
Secl	28	27	D	-3	-16	-55	-3
Sec2	18	33	-7	-17	-83	-54	-18
Sec3	42	12	з	-20	-77	-25	-10
Sec4	21	23	-2	-12	-7	-60	-6
Sec5	39	24	-б	-21	-96	-53	-19
Sec6	42	22	-5	-27	-26	-58	-8
avg.	32	23	-3	-17	-51	-51	-11
Total wid	th (microns)						
	SL1	SL2	SL3	SL4	SL5	SL6	*avg.
Secl	373	312	347	335	413	462	367
Sec2	365	306	377	344	466	517	390
Sec3	428	289	375	494	469	512	417
Sec4	293	301	343	329	388	461	346
Sec5	380	324	382	378	459	469	389
Sec6	394	303	363	432	517	437	394