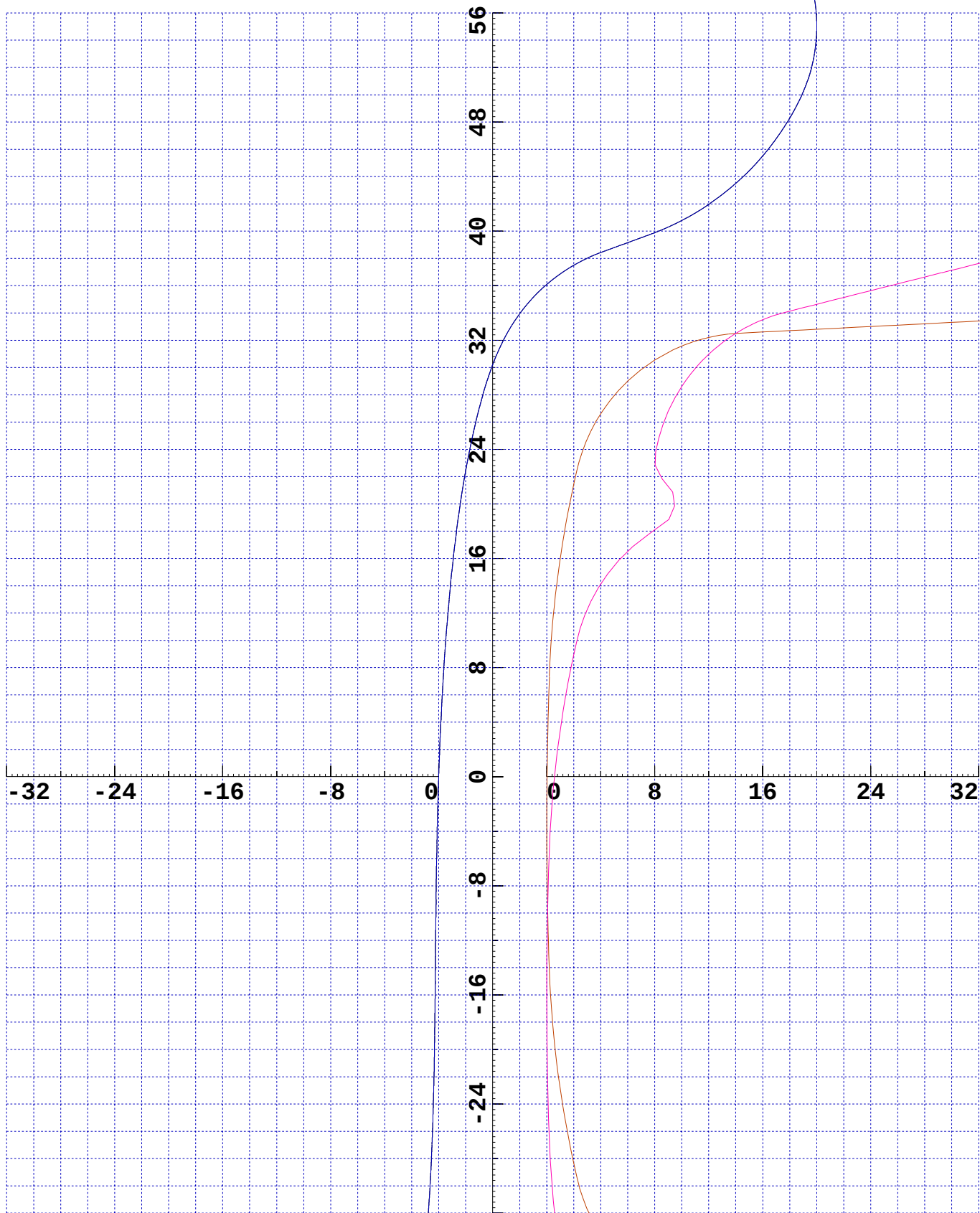
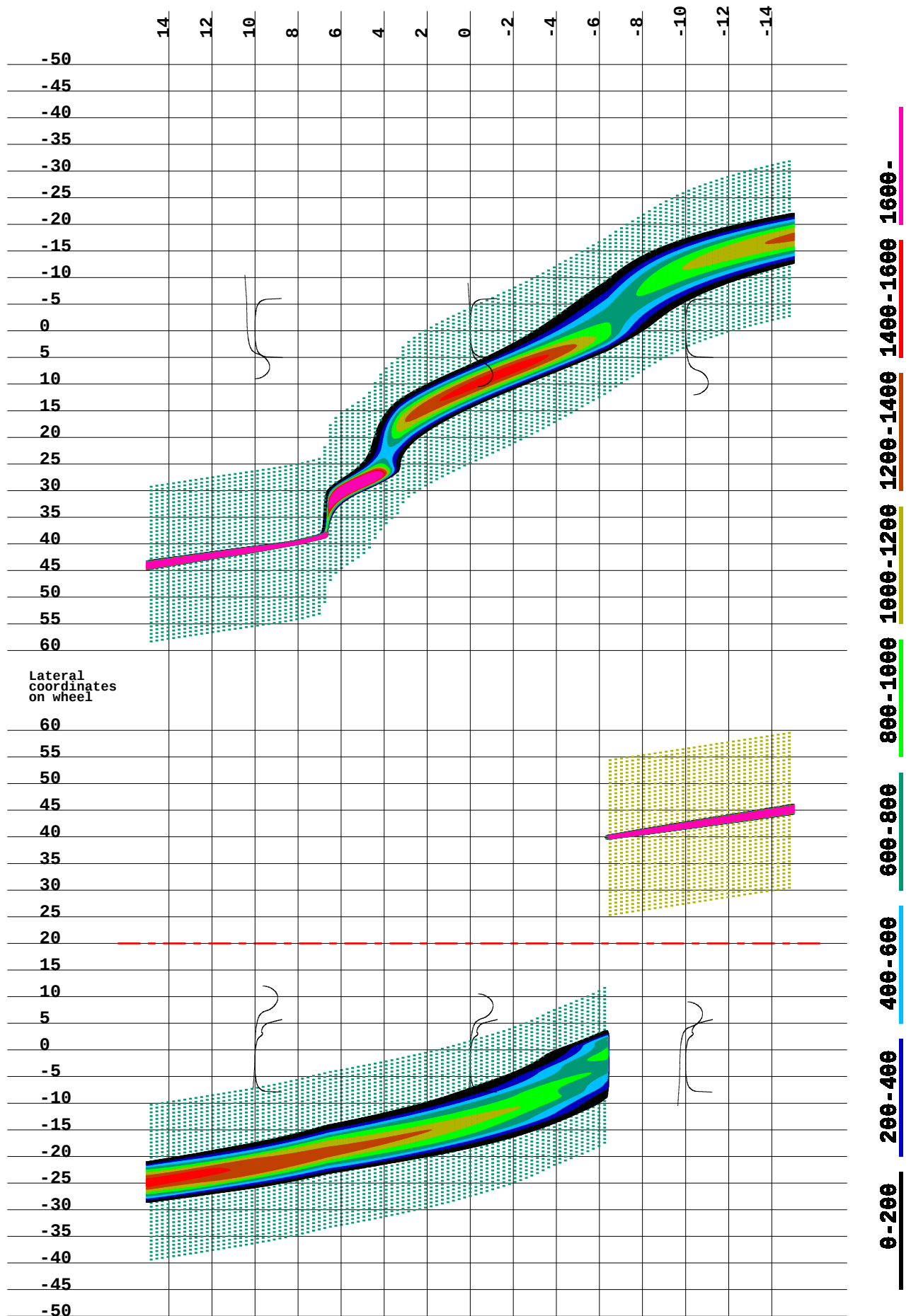


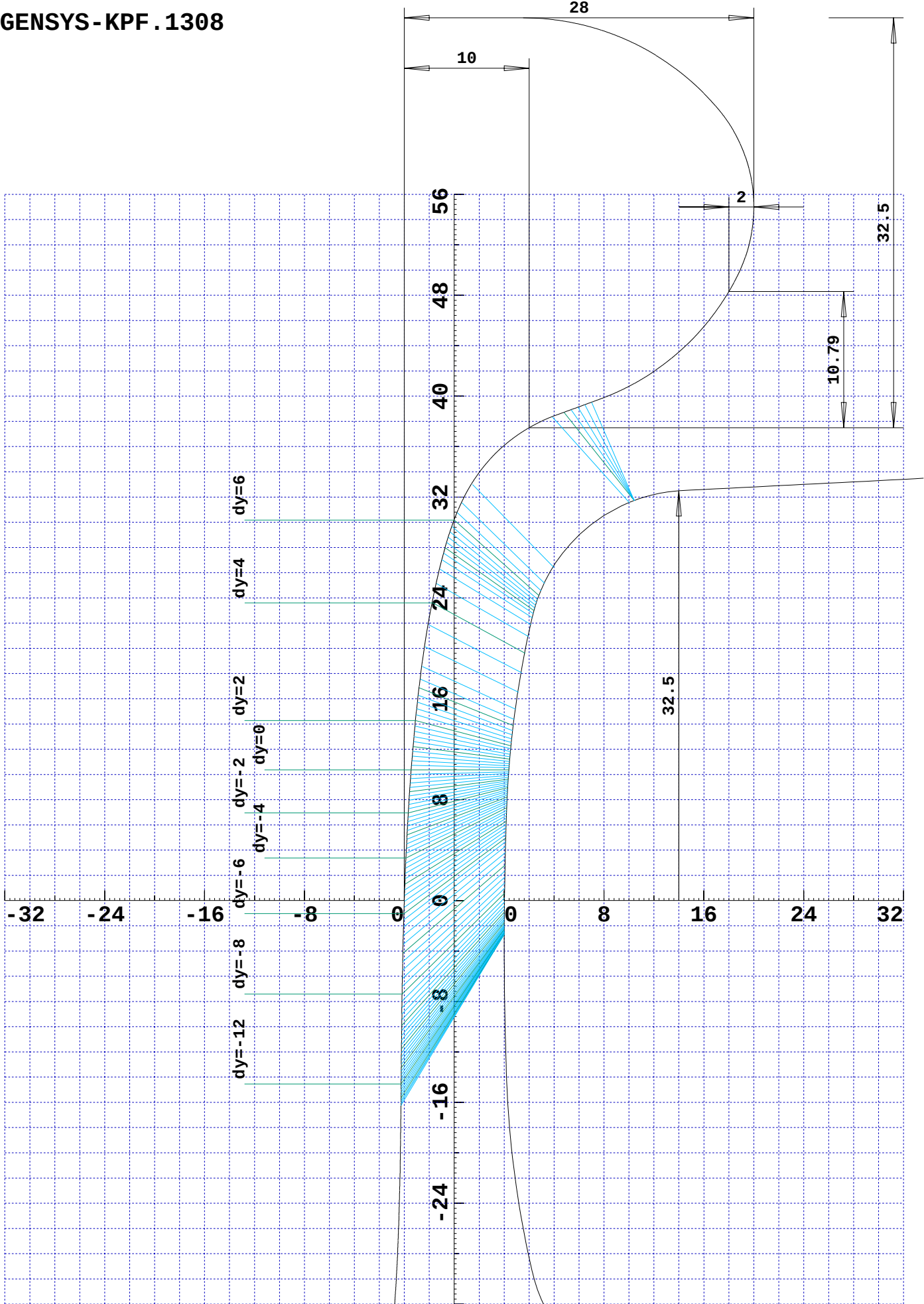
- Right wheel
- Left wheel
- Right rail
- Left rail



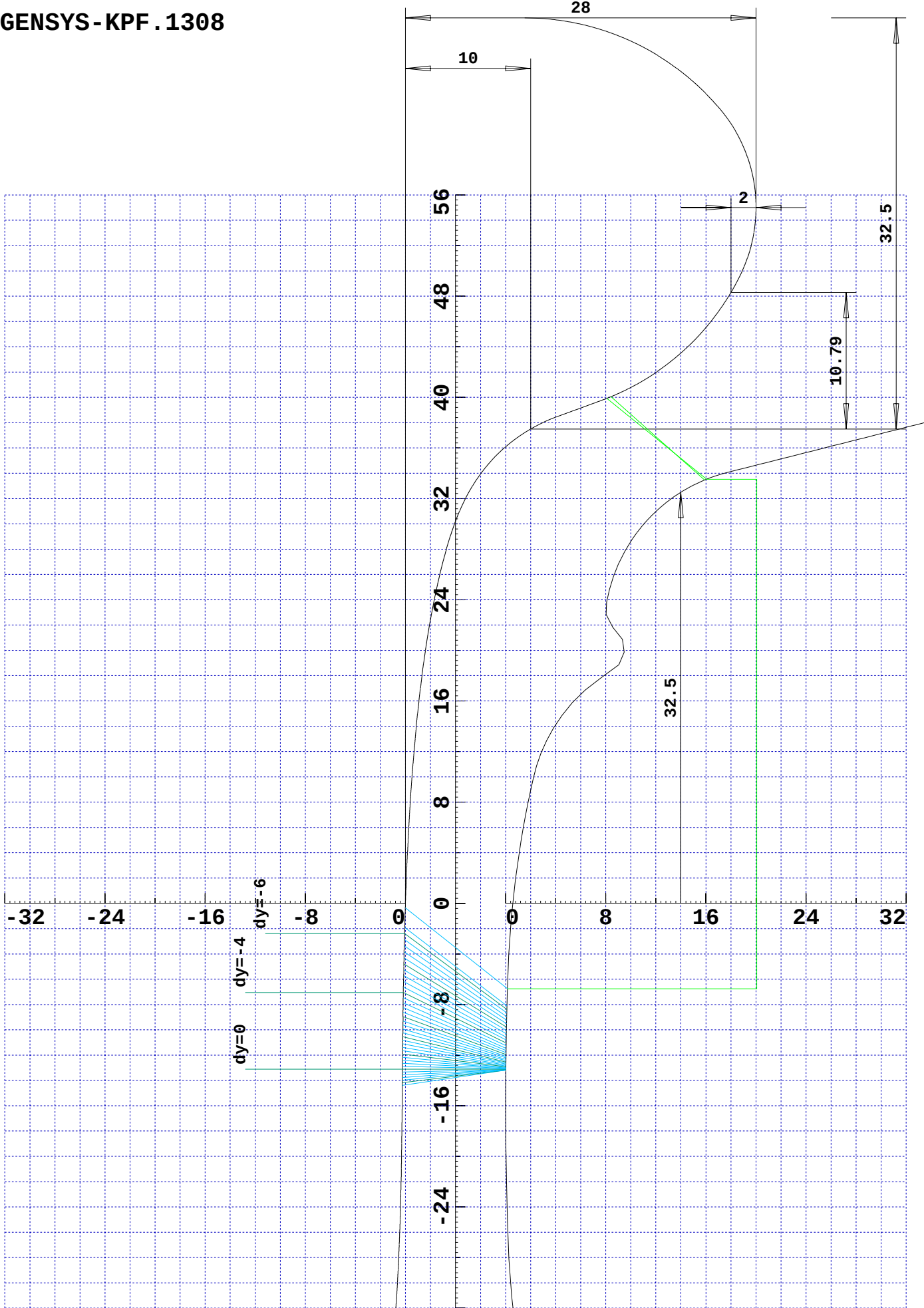
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



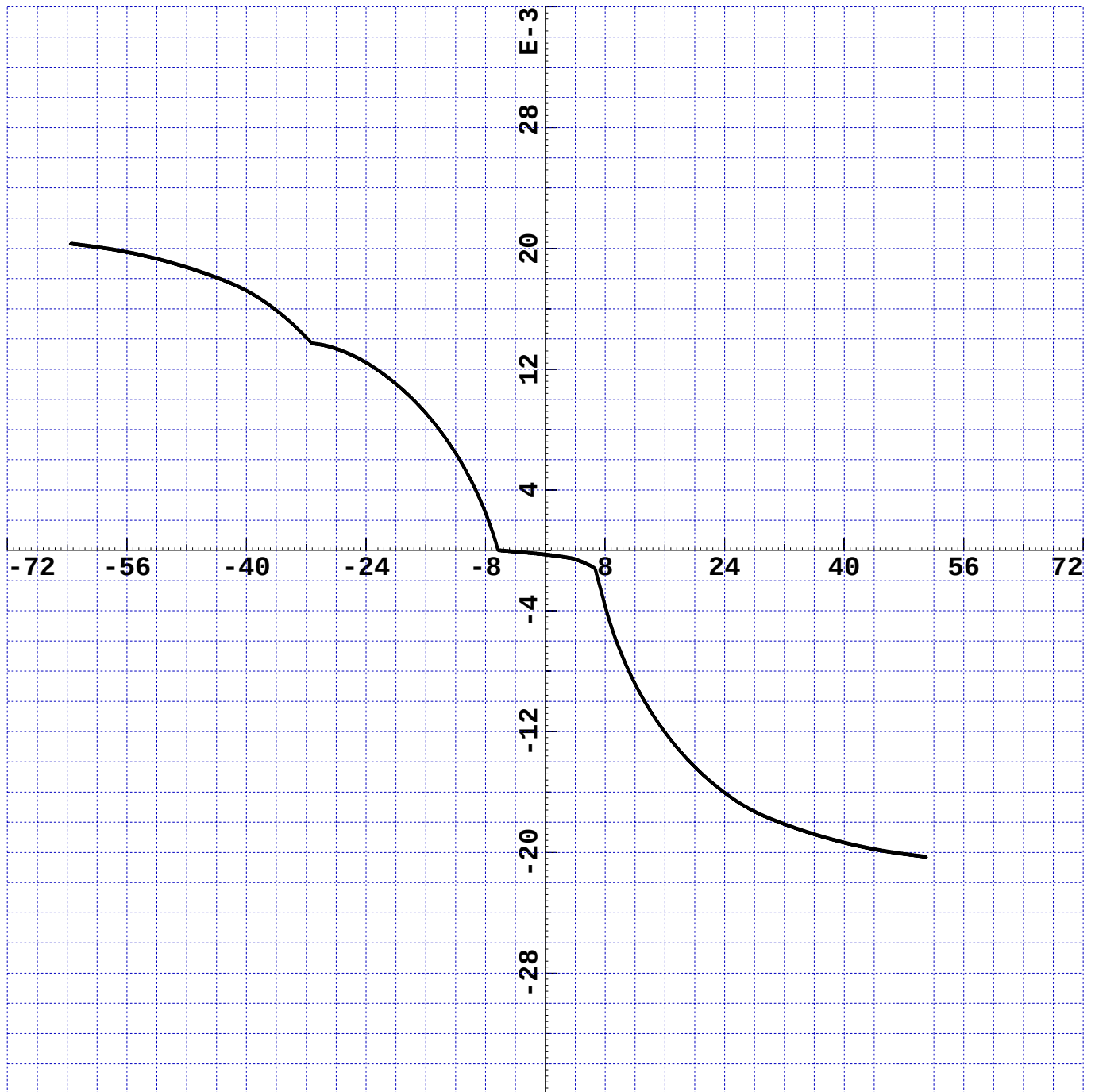


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel CONNr
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441
Ident: kpfr_005



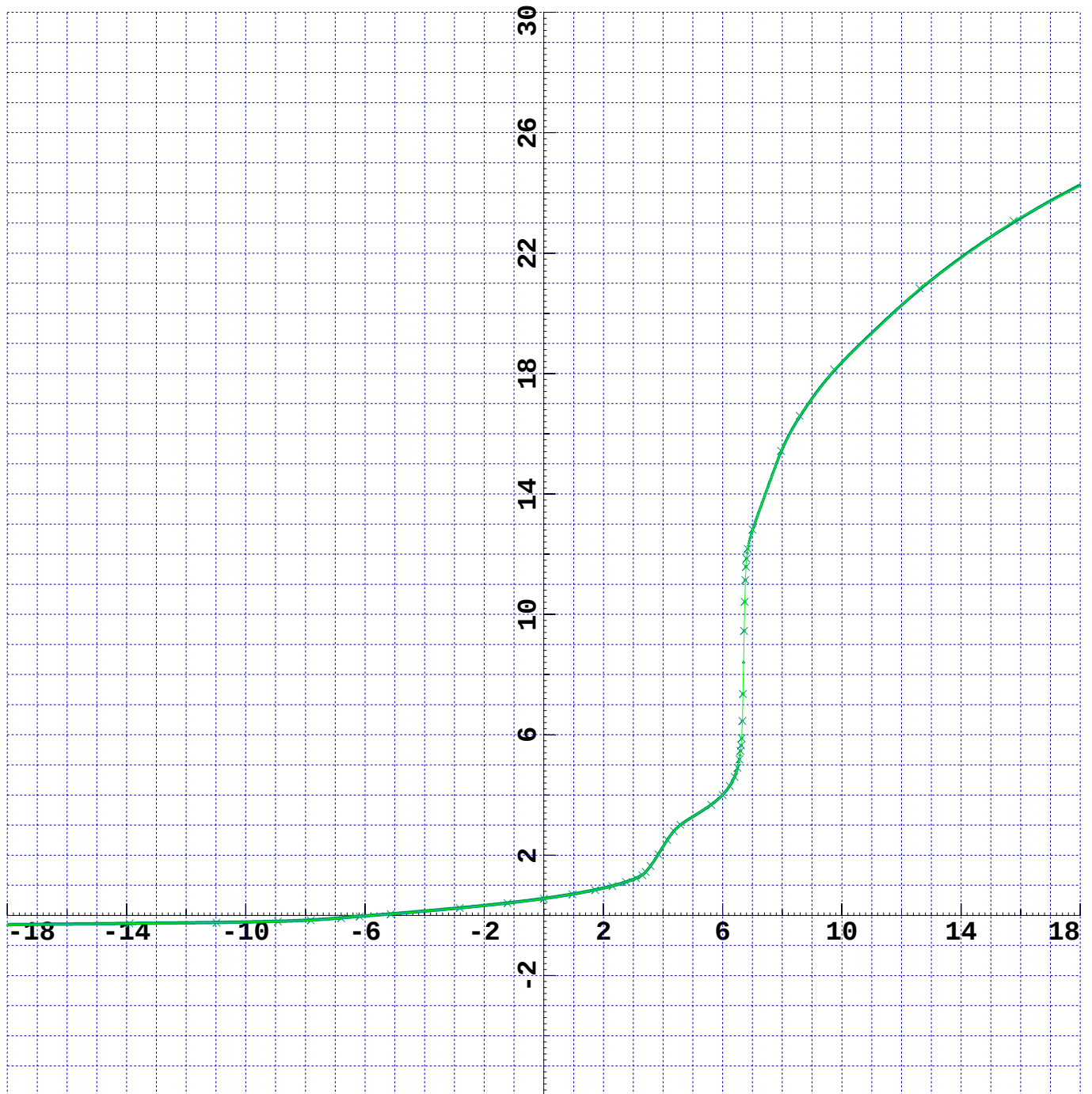
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **CONN1**
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flax1**
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

DRFNr

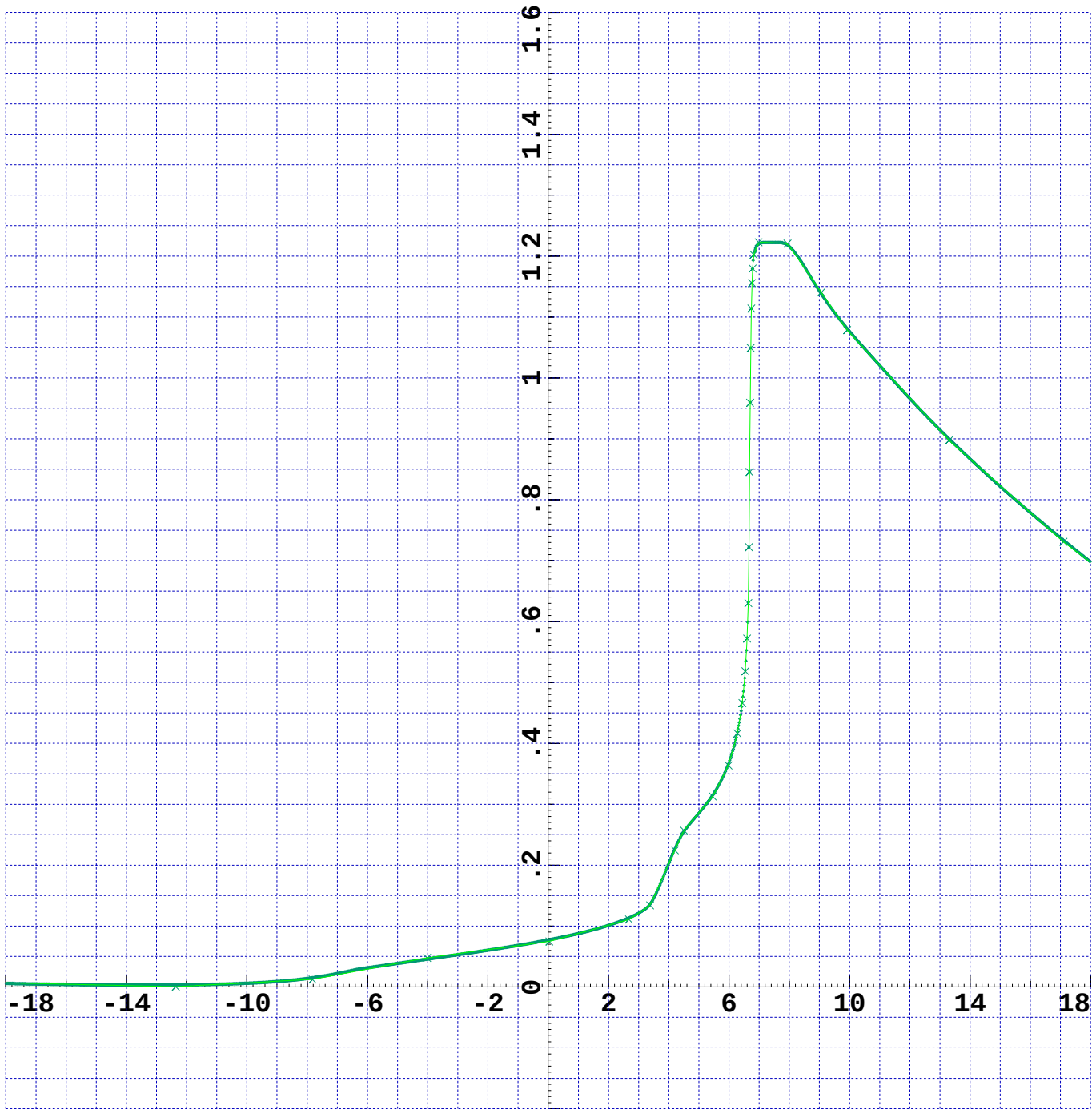
Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

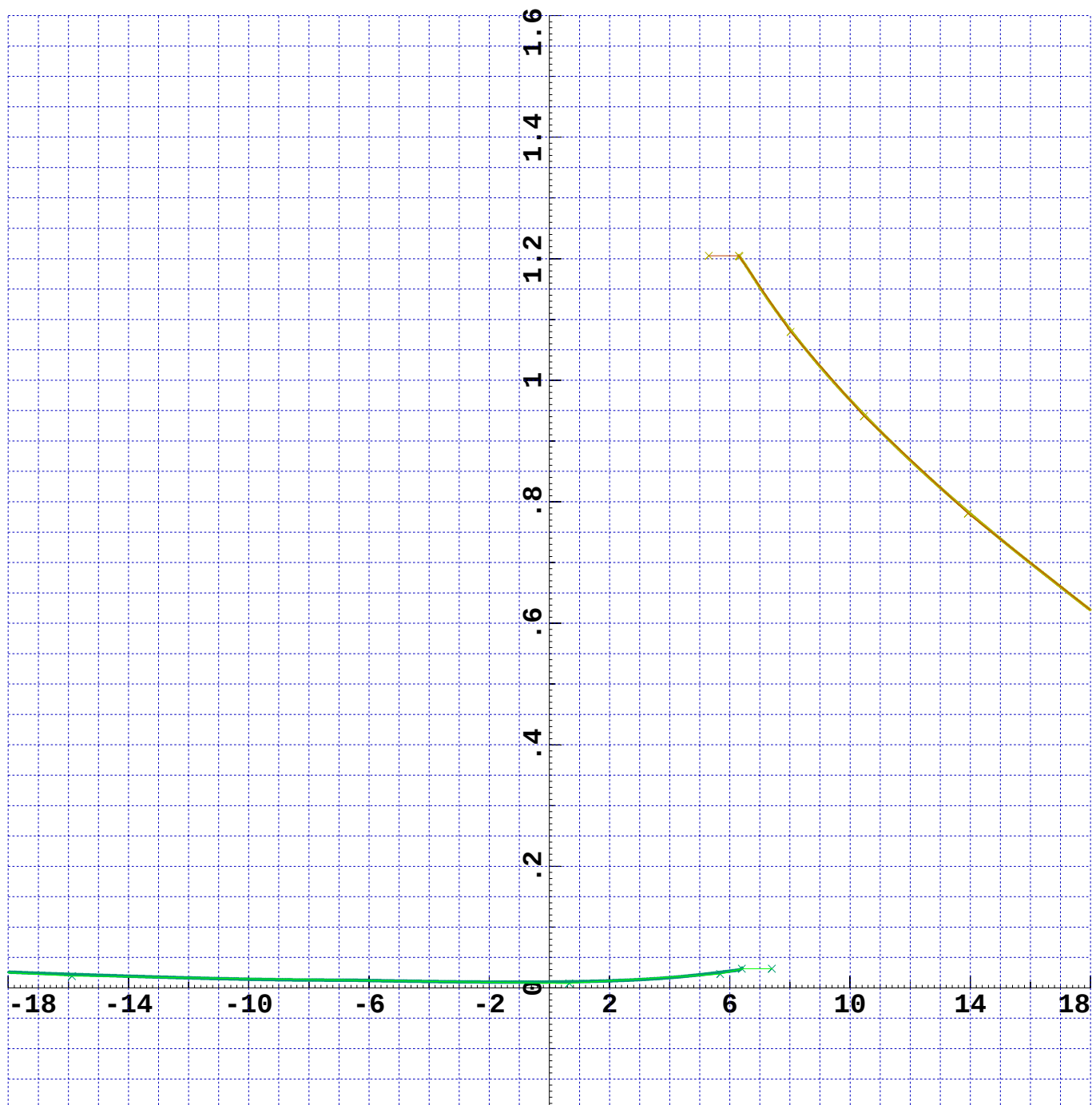
DRFN1

Ident: kpfr_005



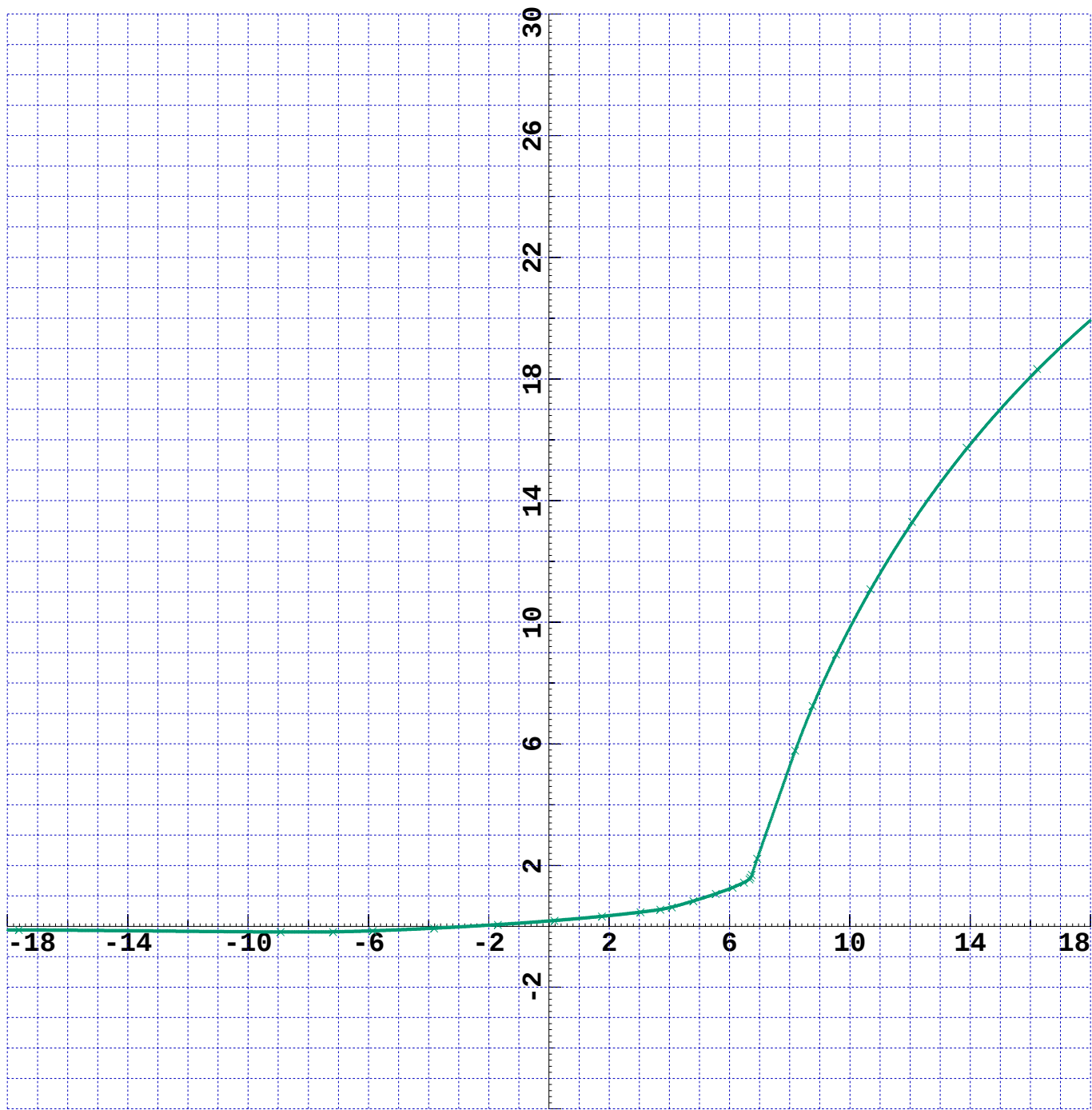
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail GAMFNr
wprof_lat_shift= 0 Gauge= 1425-1441

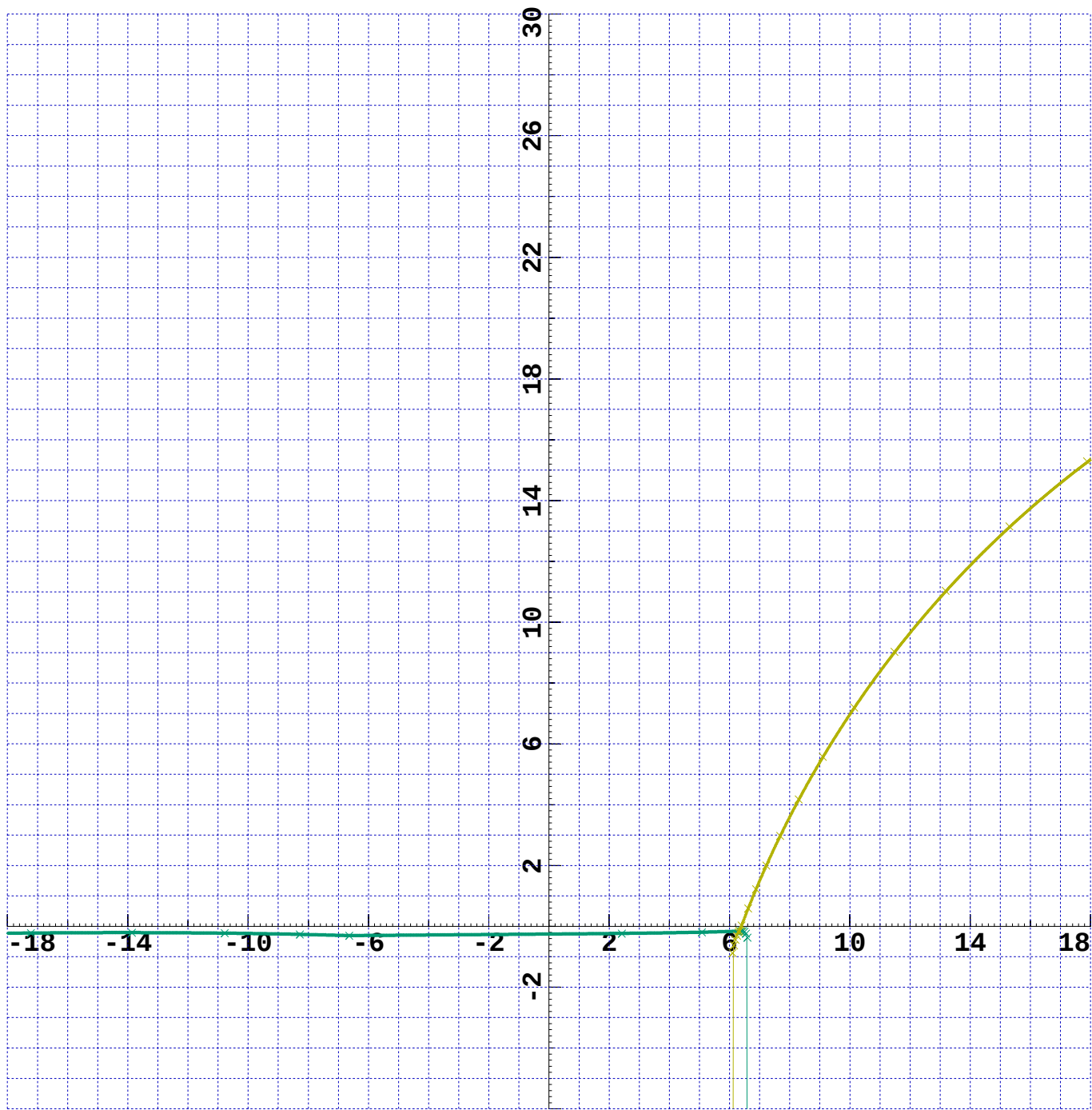
Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFN1
 Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005





Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel ZFN1
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



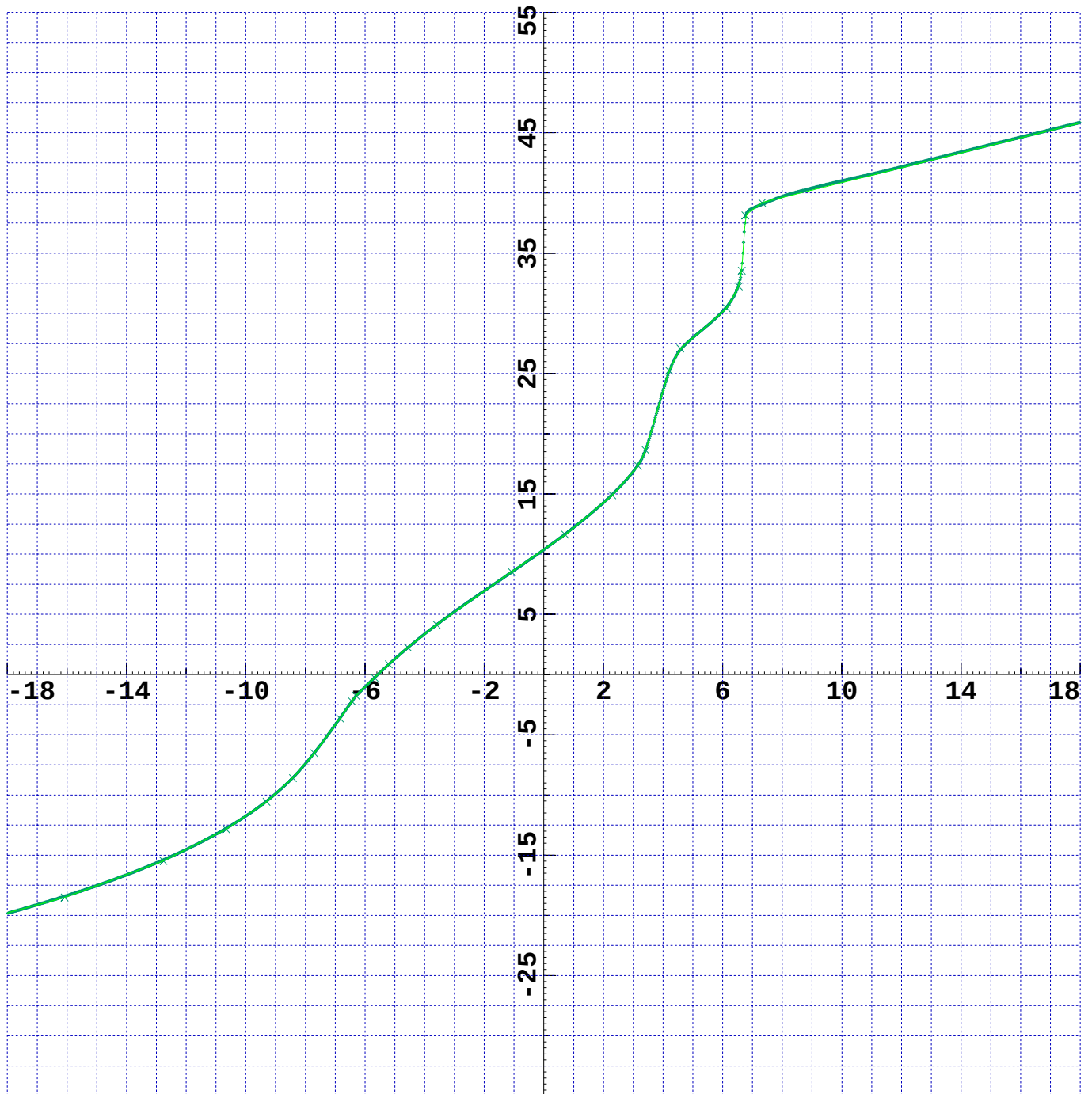
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

Ident: kpfr_005



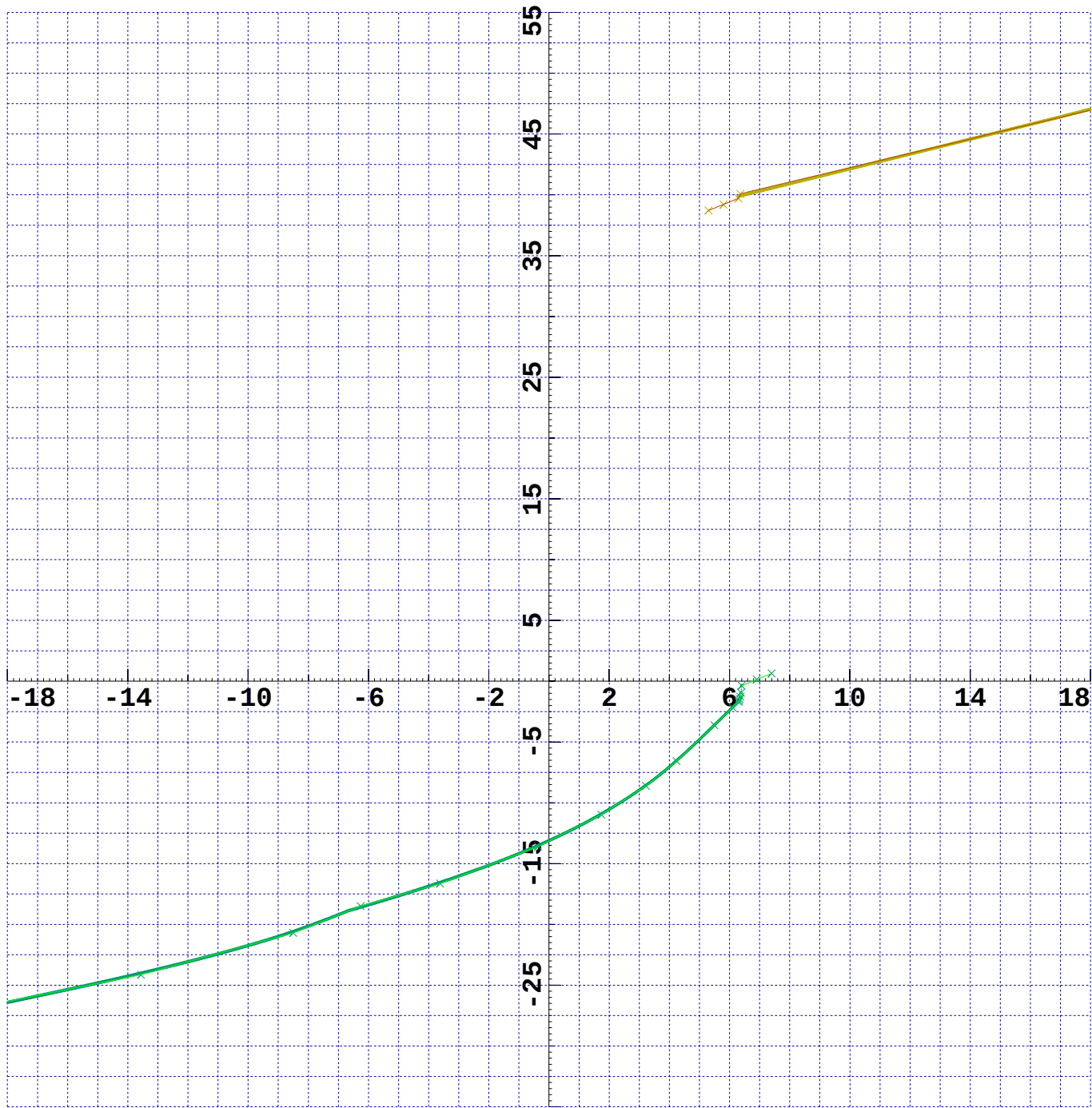
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ROFN1
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441
Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

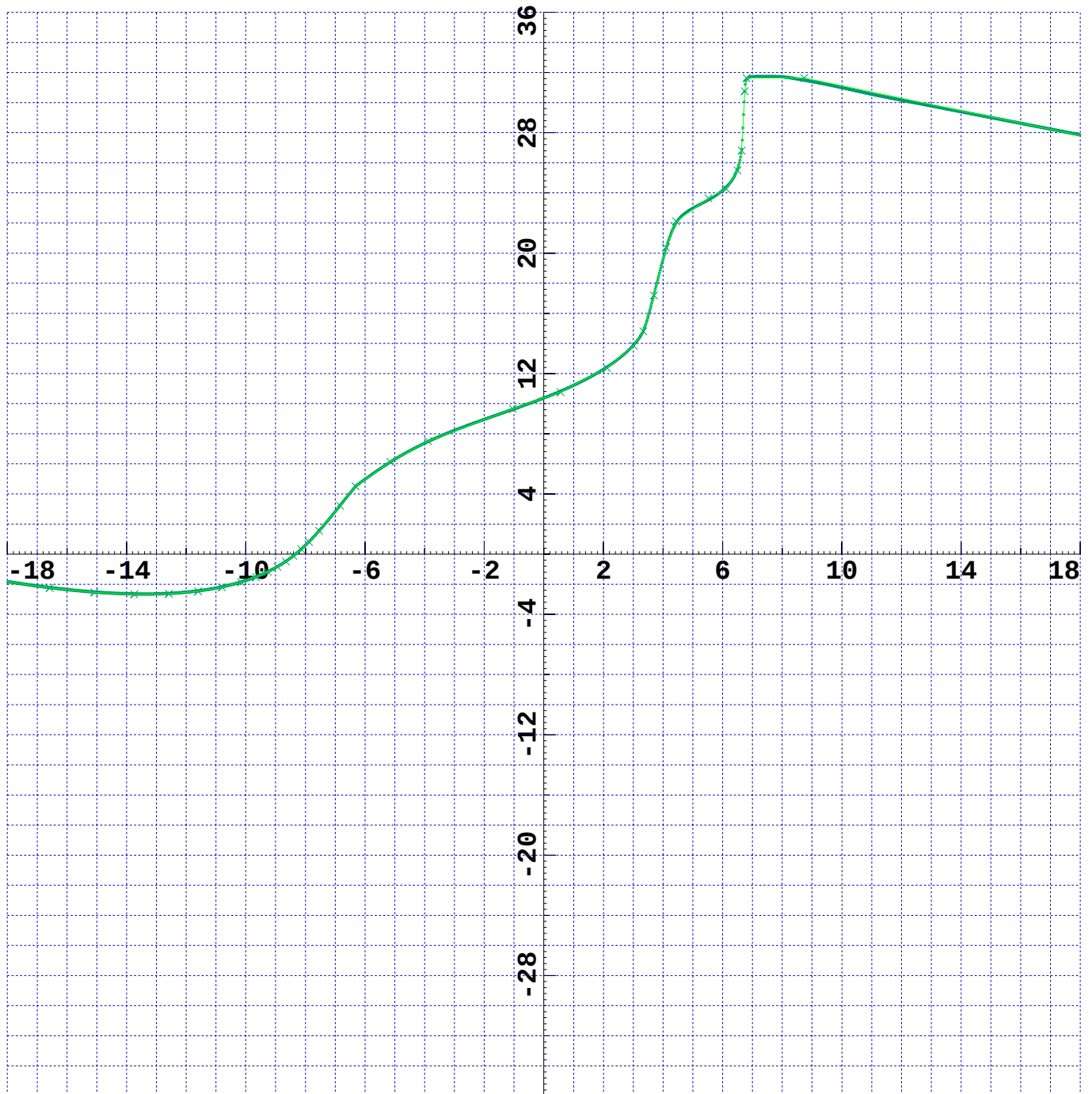
POSWr

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSW1
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

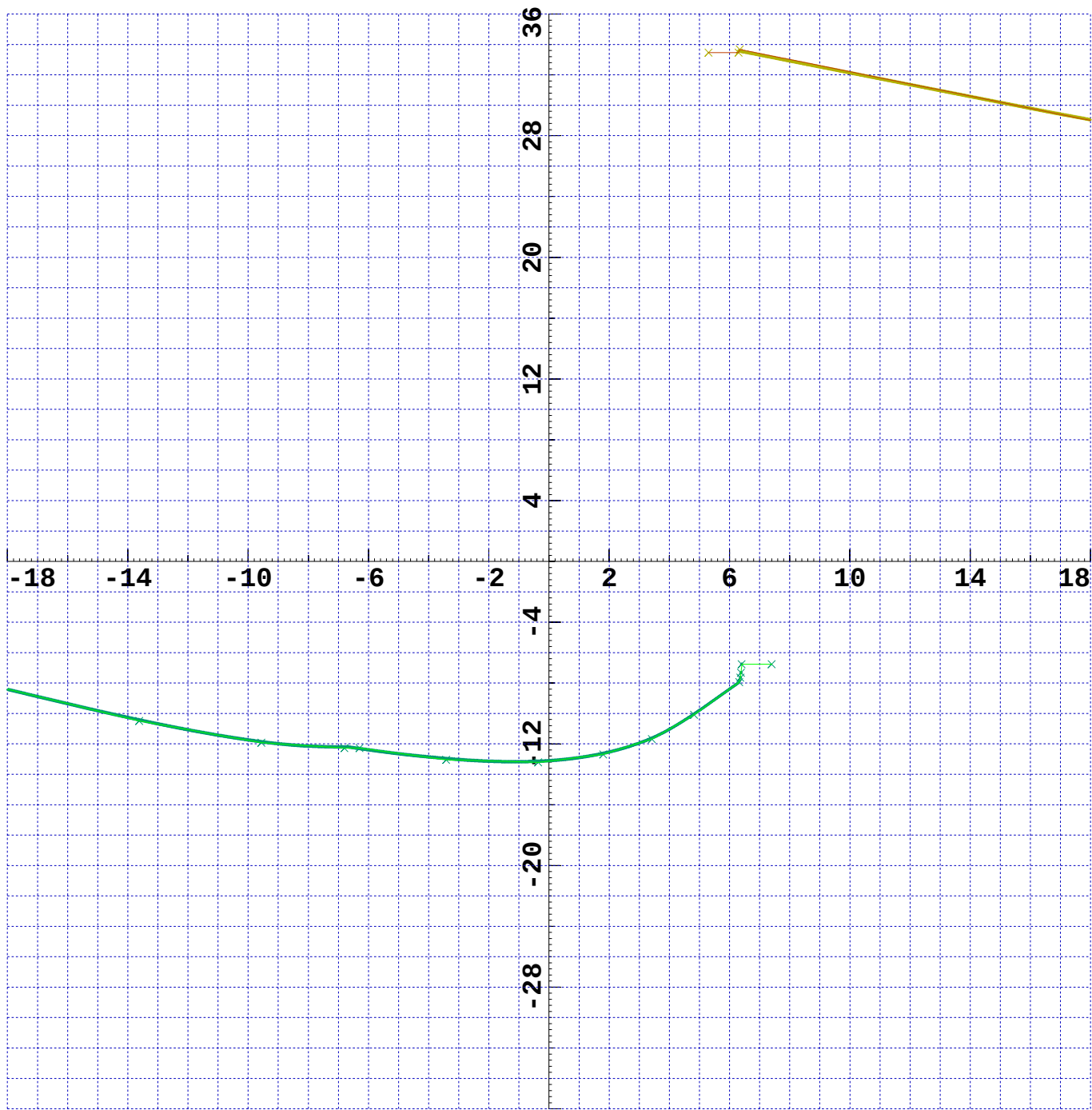
Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

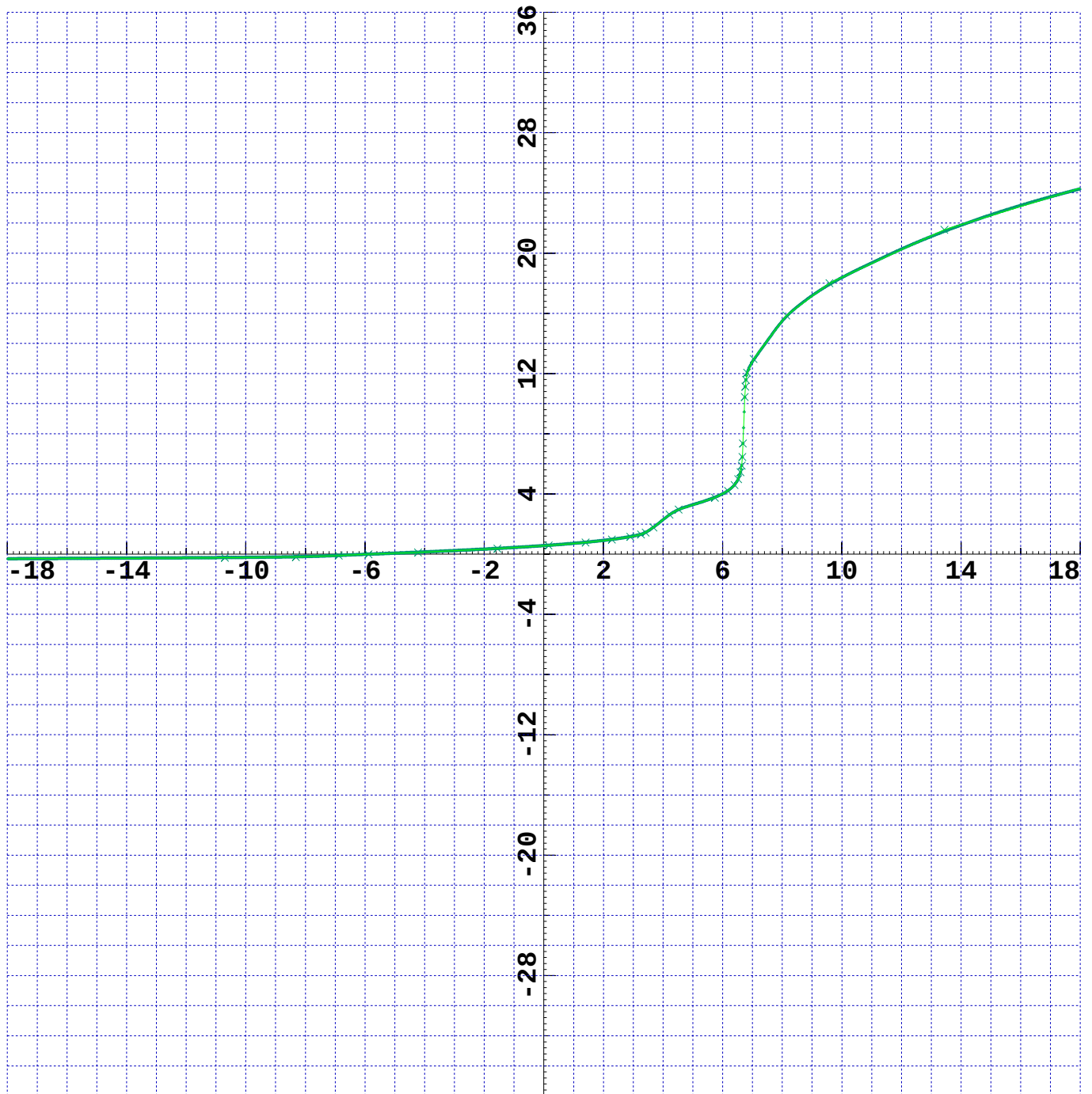
POSRR

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **POSR1**
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

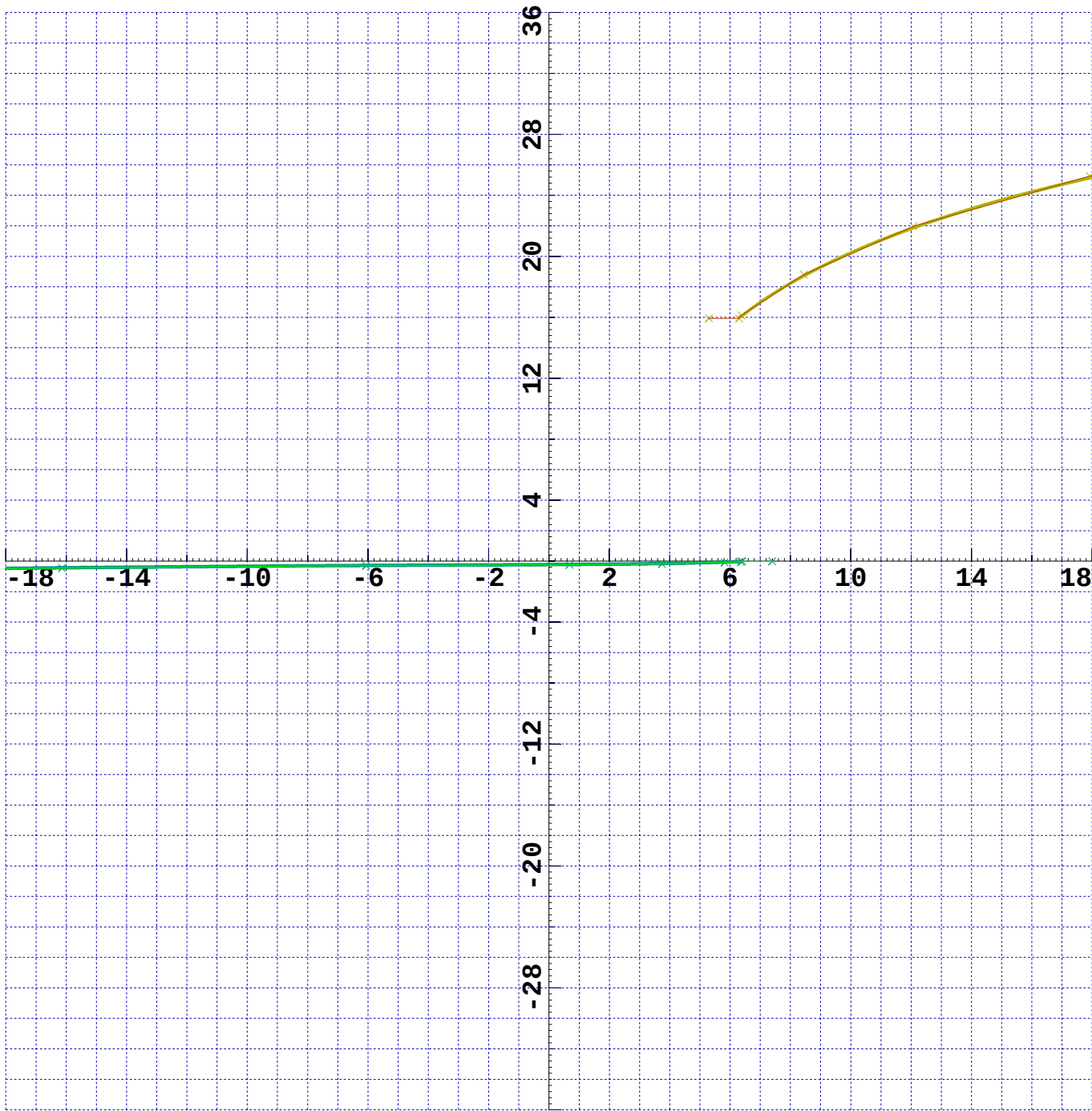
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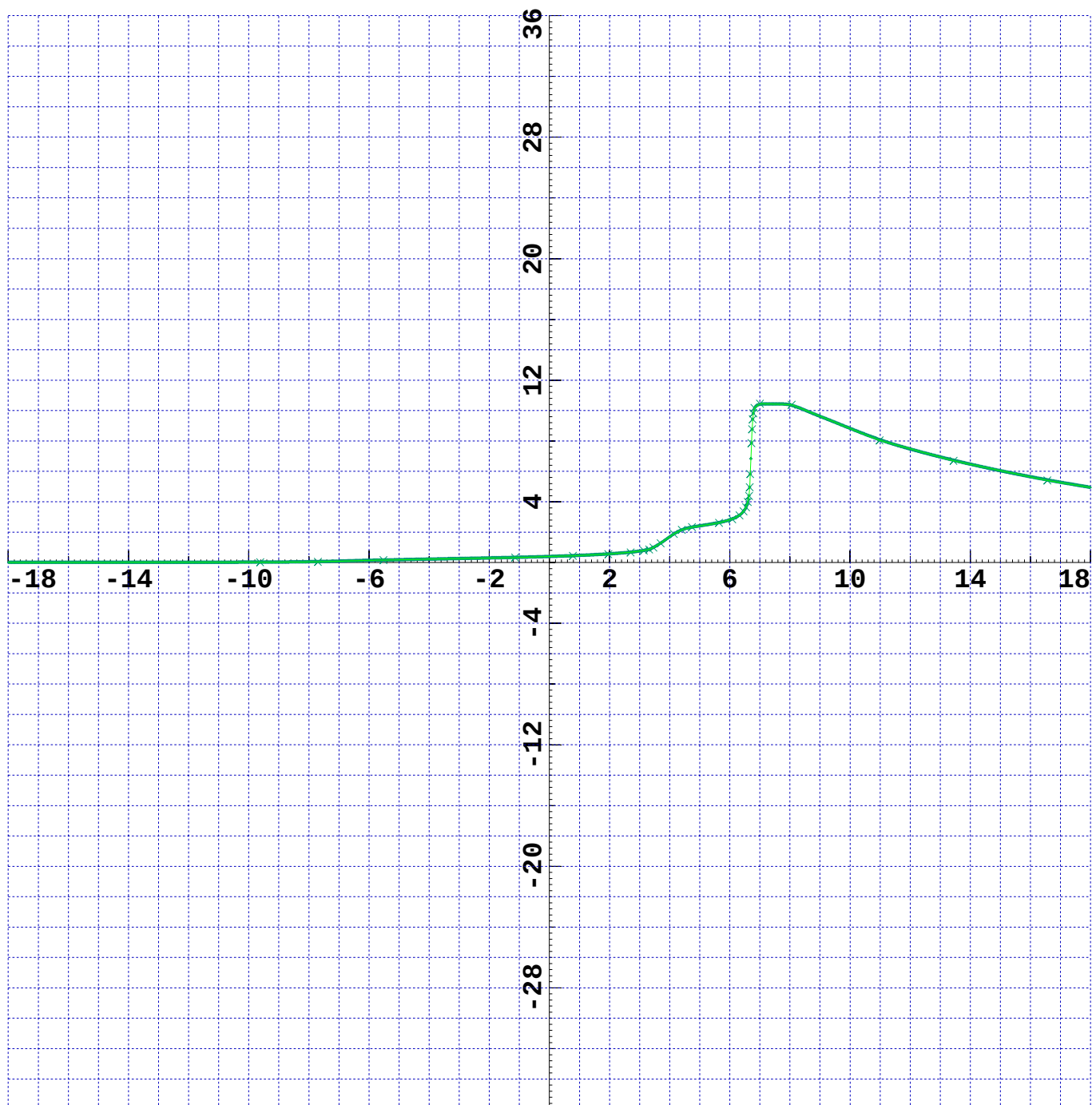


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

Ident: kpfr_005





Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

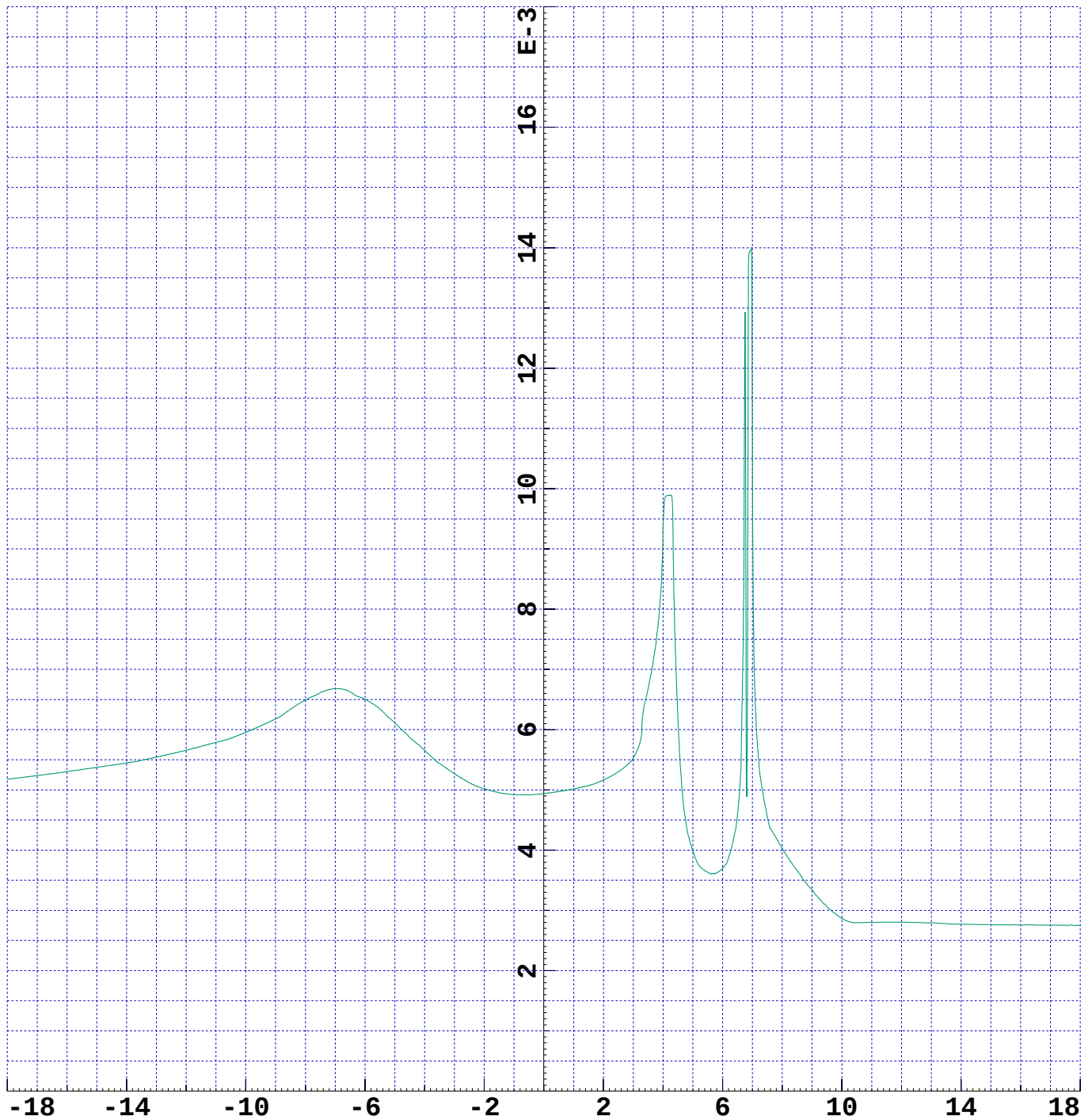
Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZR1

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

C_r

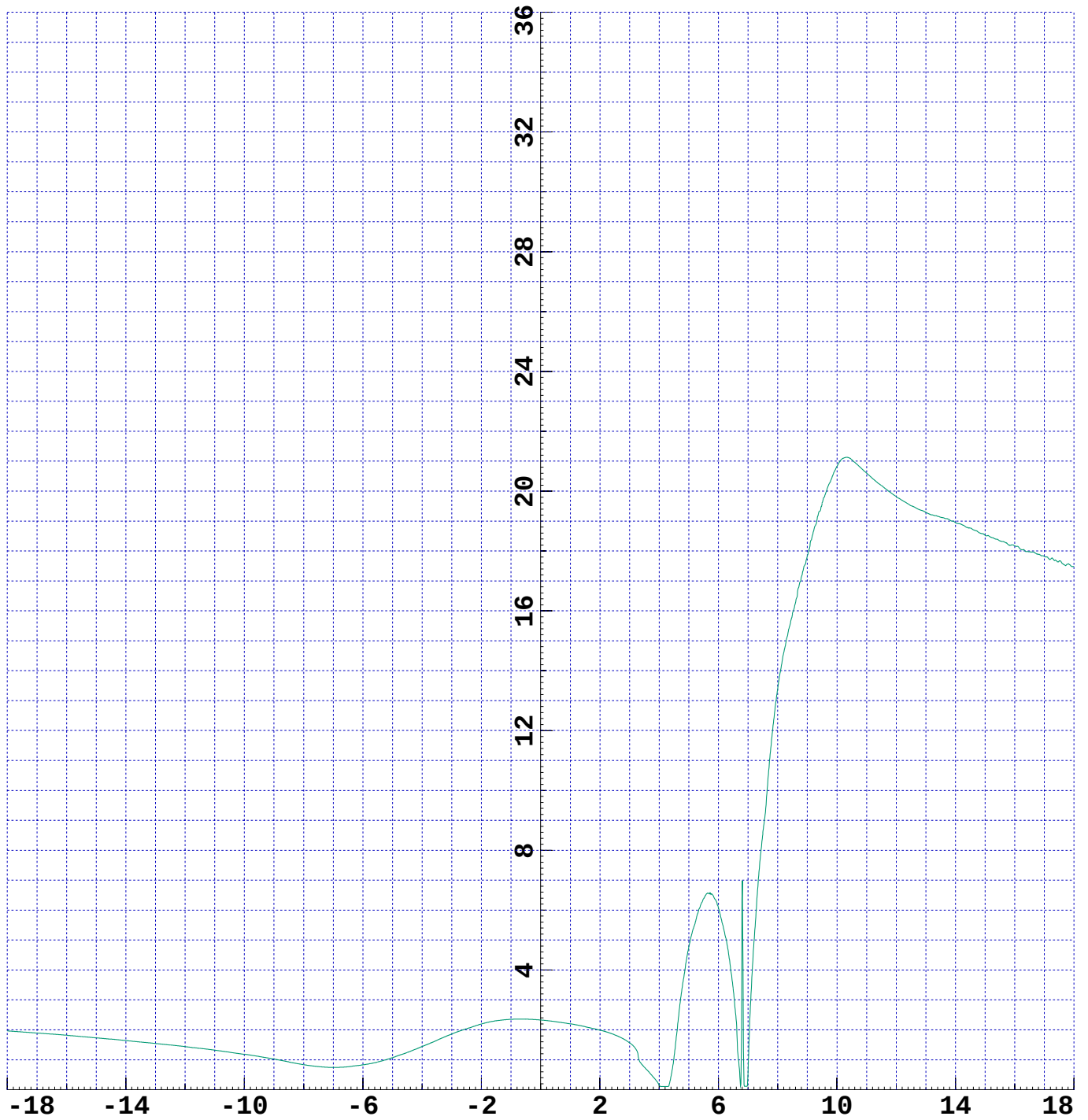
Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

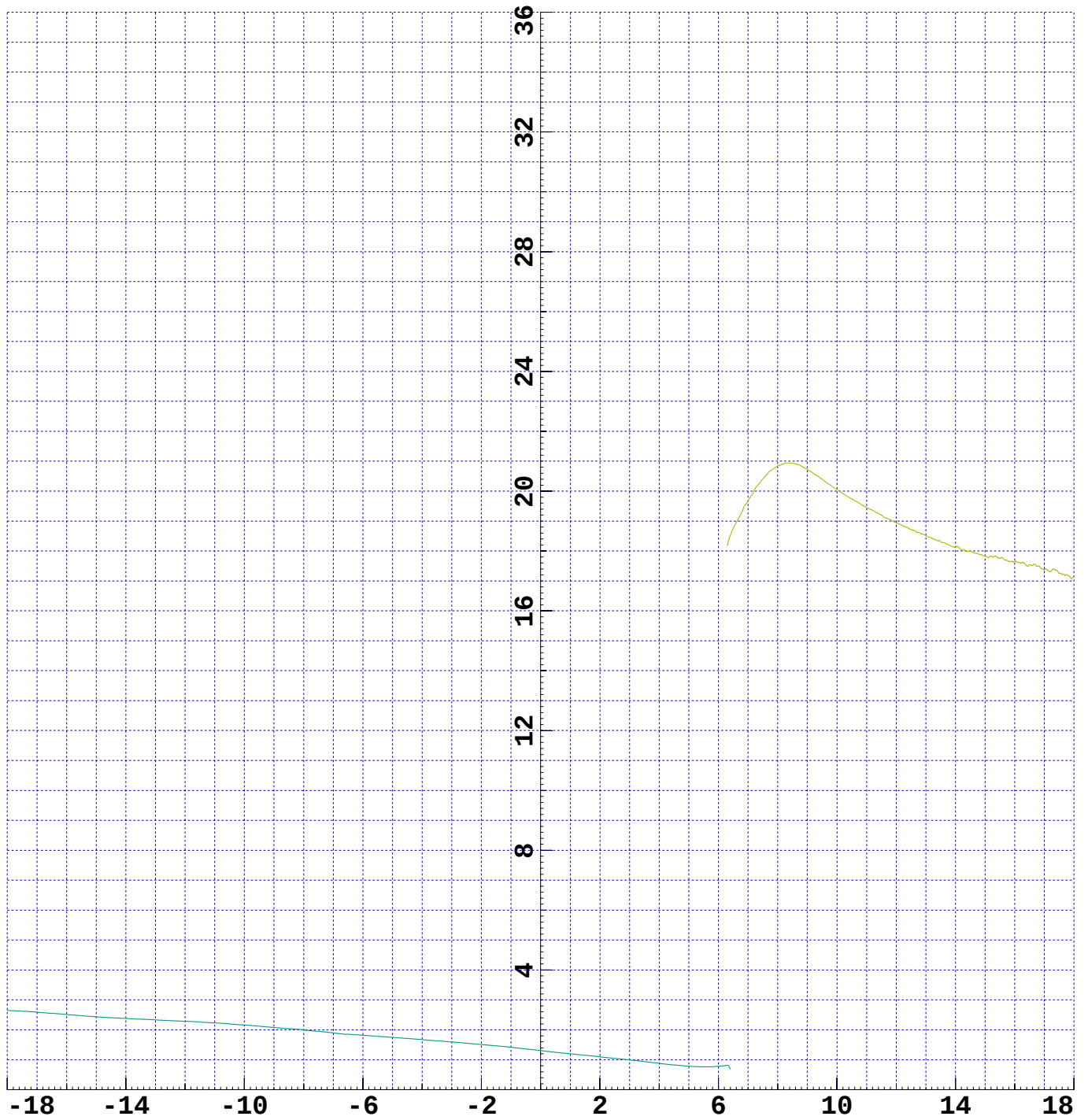
C_1

Ident: kpfr_005



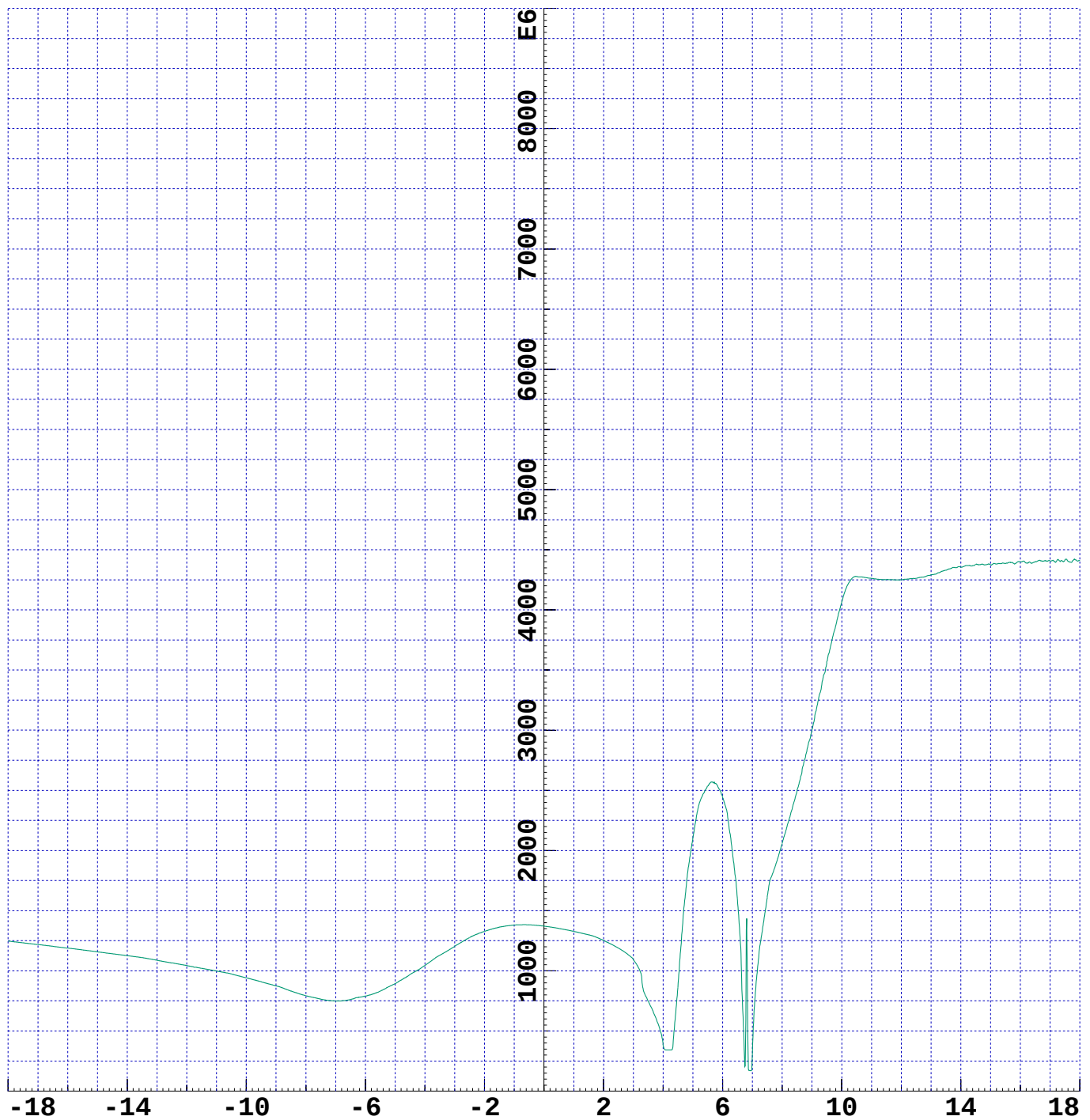
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005

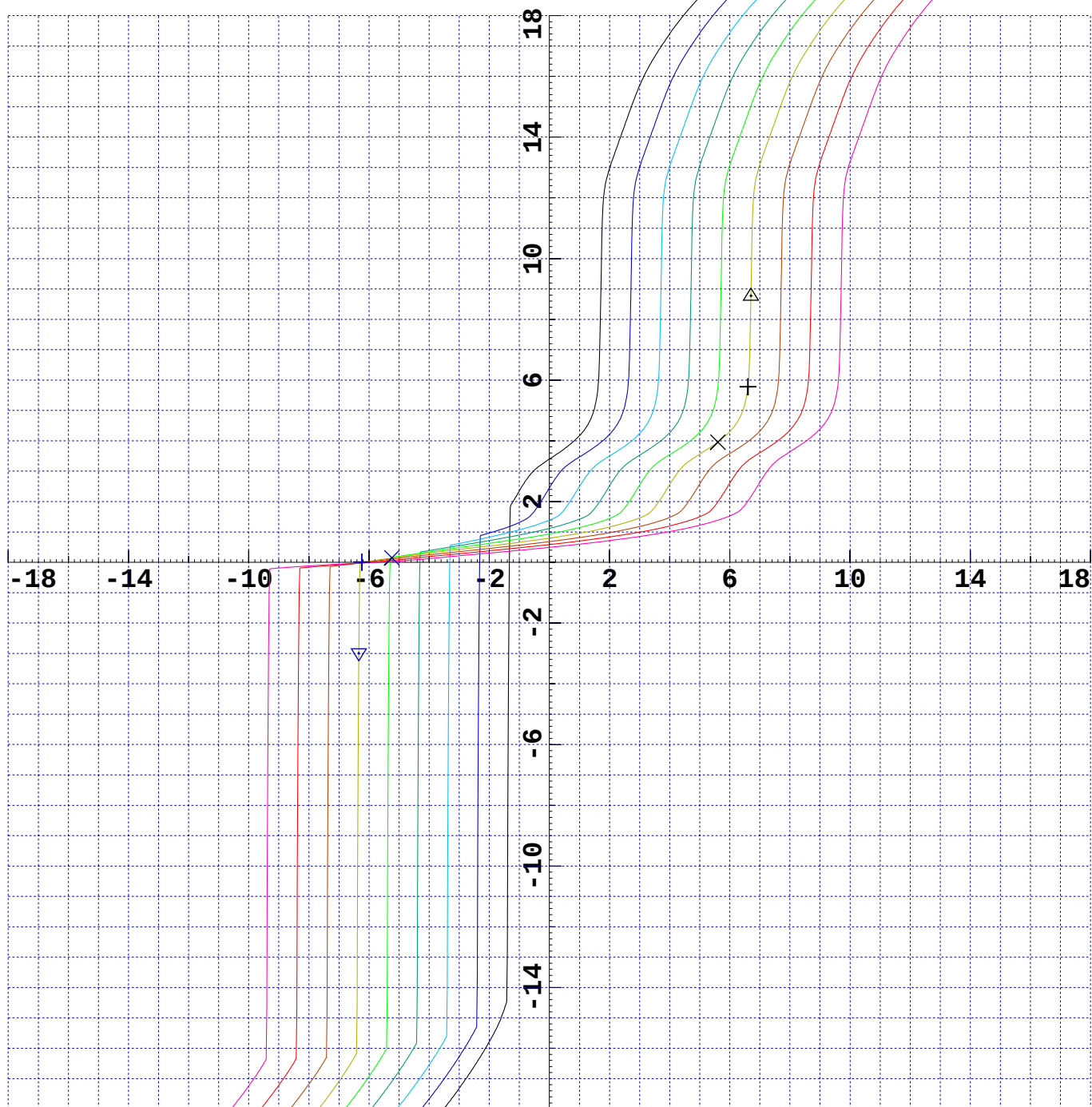
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

× = $\Delta r_E = 3.96$ left curve
 × = $\Delta r_E = 0.14$ right curve
 + = $A0r = 6.60$ 5.78
 + = $A0l = -6.24$.01

possibility of
rolling without
slip

discontinuity
point



△ = 0.1mm right of +discontinuity
 ▽ = 0.1mm left of -discontinuity

Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel

Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail

Wprof_lat_shift= 0 Gauge= 1425-1441

rr-rl

Ident: kpfr_005

GENSYS-KPF.1308

Delta_Y=

.1

.5

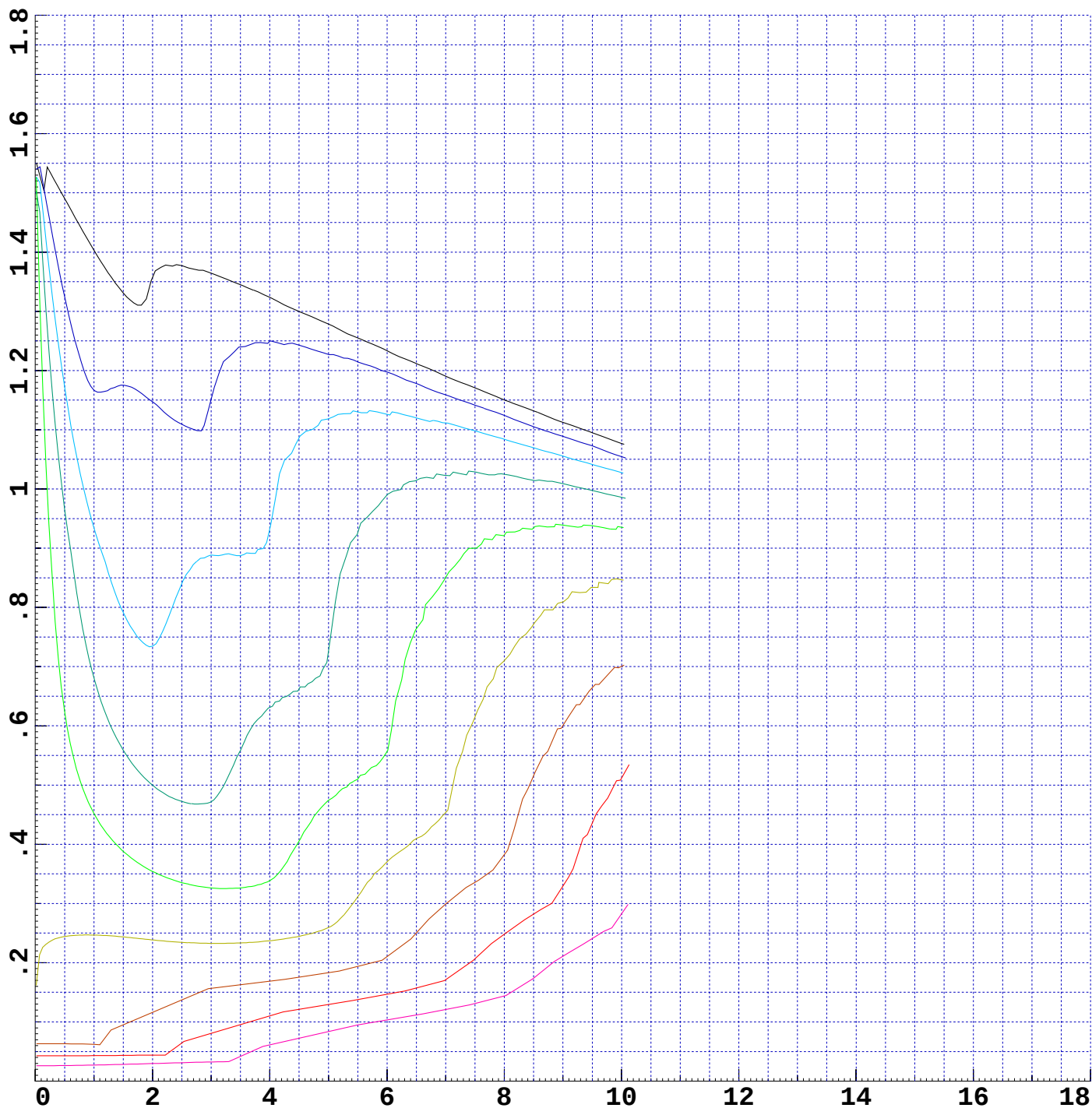
2

3

4

6

Gauge=	1425	—	1.521	1.491	1.357	1.365	1.323	1.233
	1427	—	1.533	1.325	1.147	1.151	1.249	1.197
	1429	—	1.498	1.174	.734	.889	.933	1.126
	1431	—	1.432	.968	.500	.472	.631	.990
	1433	—	1.249	.624	.354	.326	.339	.556
	1435	—	.220	.244	.239	.233	.237	.370
	1437	—	.063	.063	.116	.157	.169	.210
	1439	—	.043	.043	.044	.081	.110	.147
	1441	—	.026	.026	.030	.032	.061	.103



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel

Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

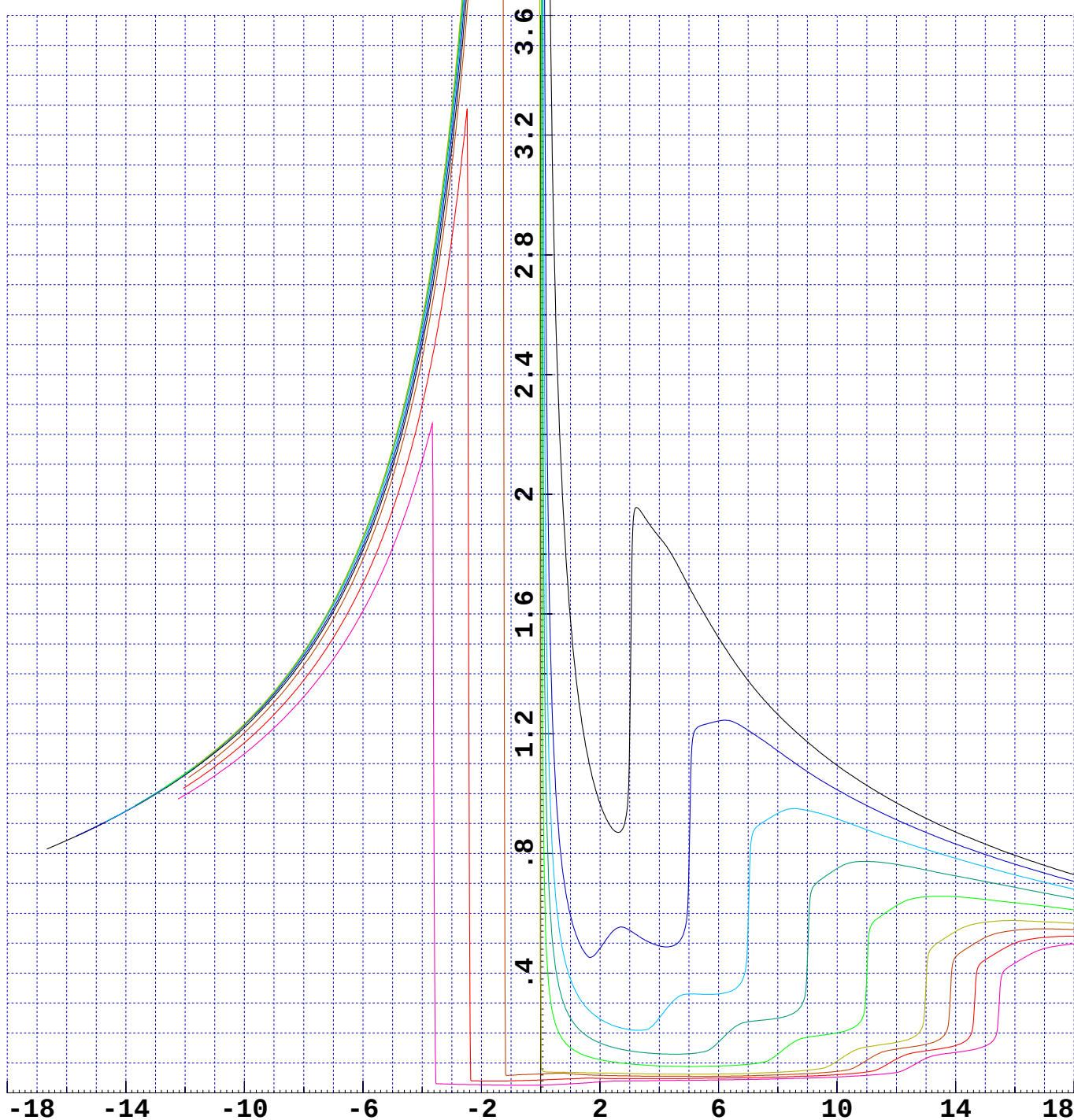
UIC519

Ident: kpfr_005

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	9.935	2.619	.967	1.183	1.857	1.521
	1427	4.521	1.019	.483	.543	.491	1.243
	1429	2.904	.656	.246	.211	.250	.330
	1431	1.774	.417	.167	.140	.130	.170
	1433	.853	.229	.111	.097	.090	.089
	1435	.071	.069	.066	.064	.063	.063
	1437	.064	.065	.059	.056	.055	.056
	1439	.043	.045	.049	.048	.048	.049
	1441	.026	.028	.036	.039	.041	.043

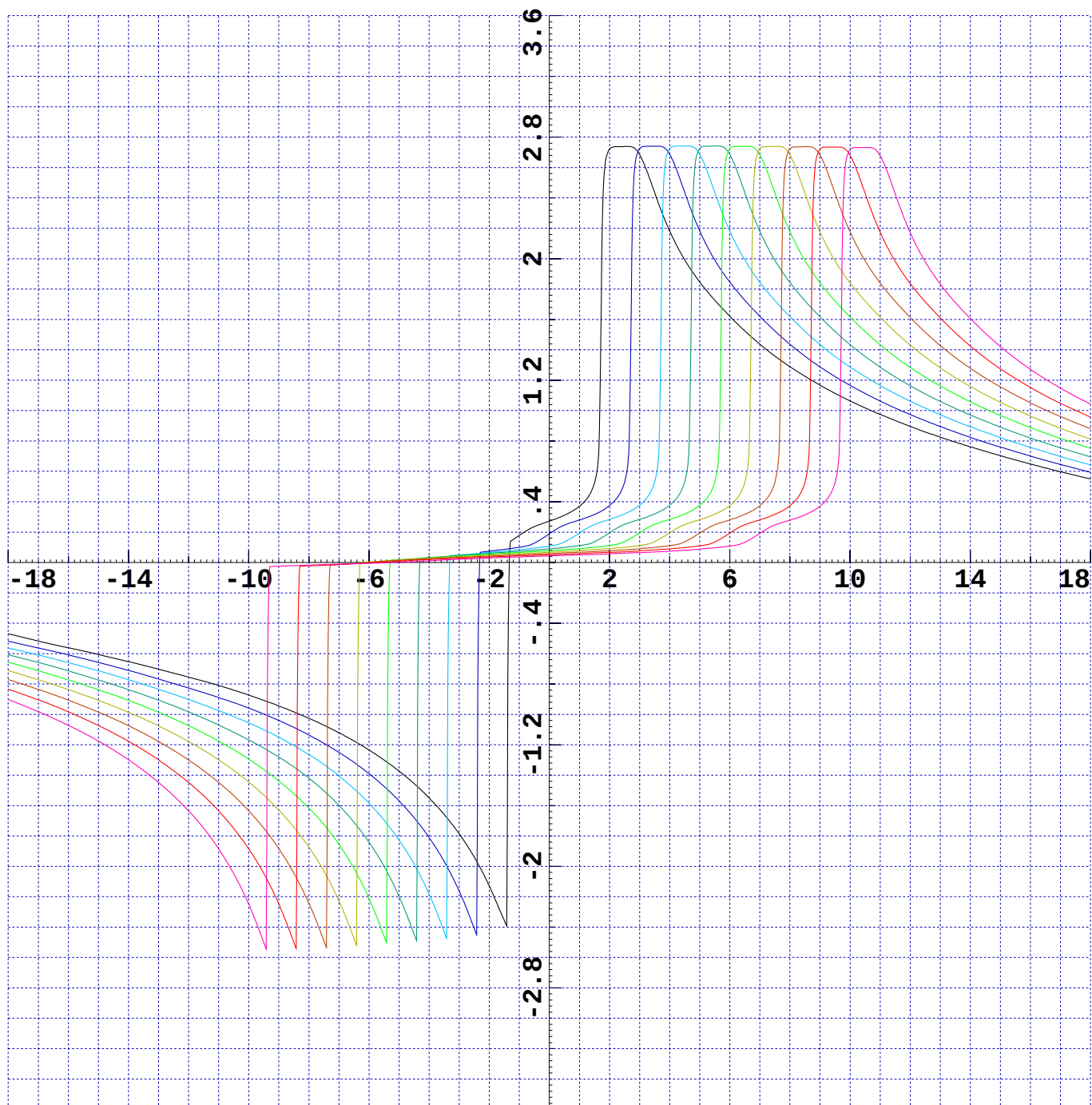


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **lambda**
 Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005

GENSYS-KPF.1308

Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

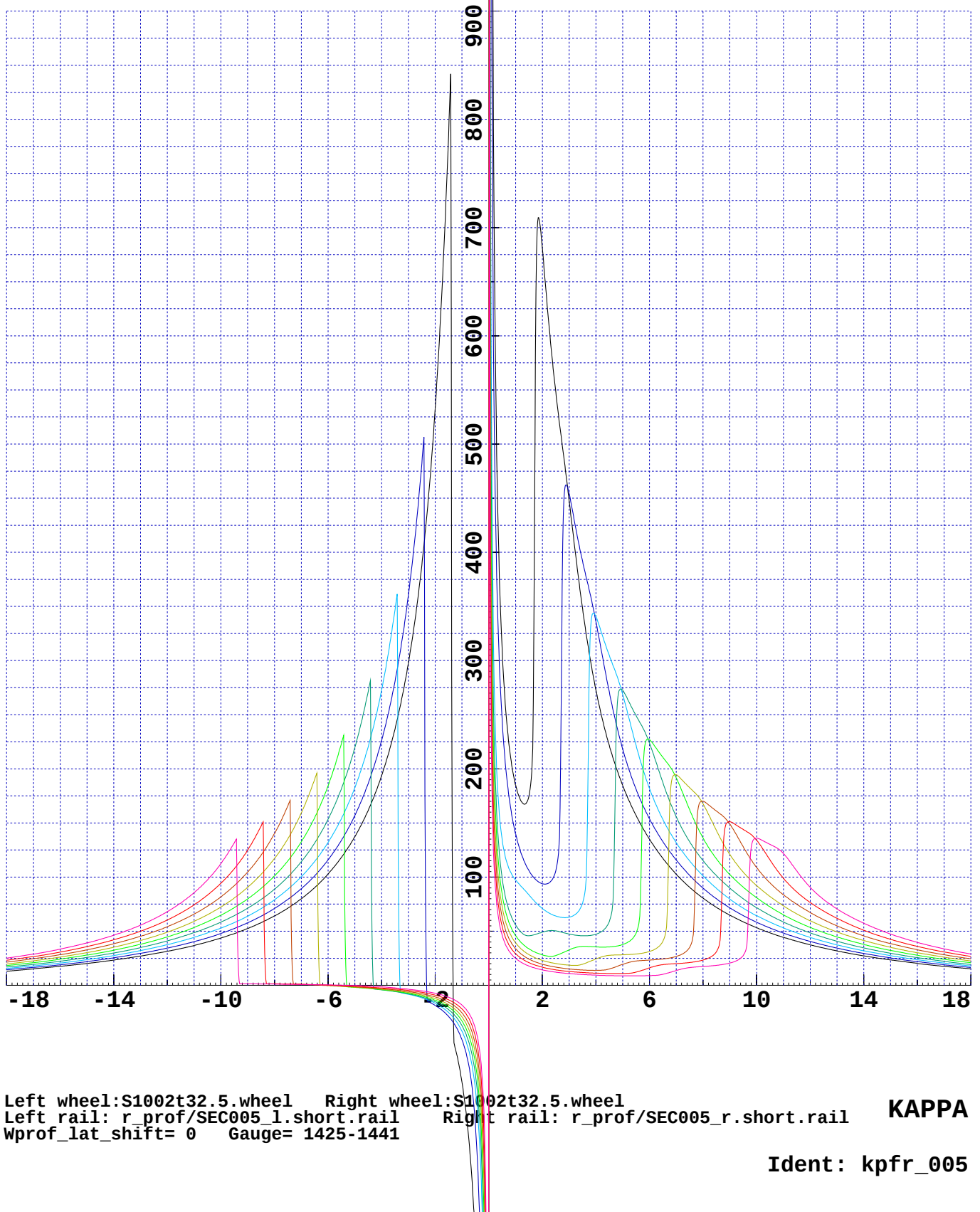


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel $\tan_{Ga}$
 Left rail: r_prof/SEC005_l.short.rail Right rail: r_prof/SEC005_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_005

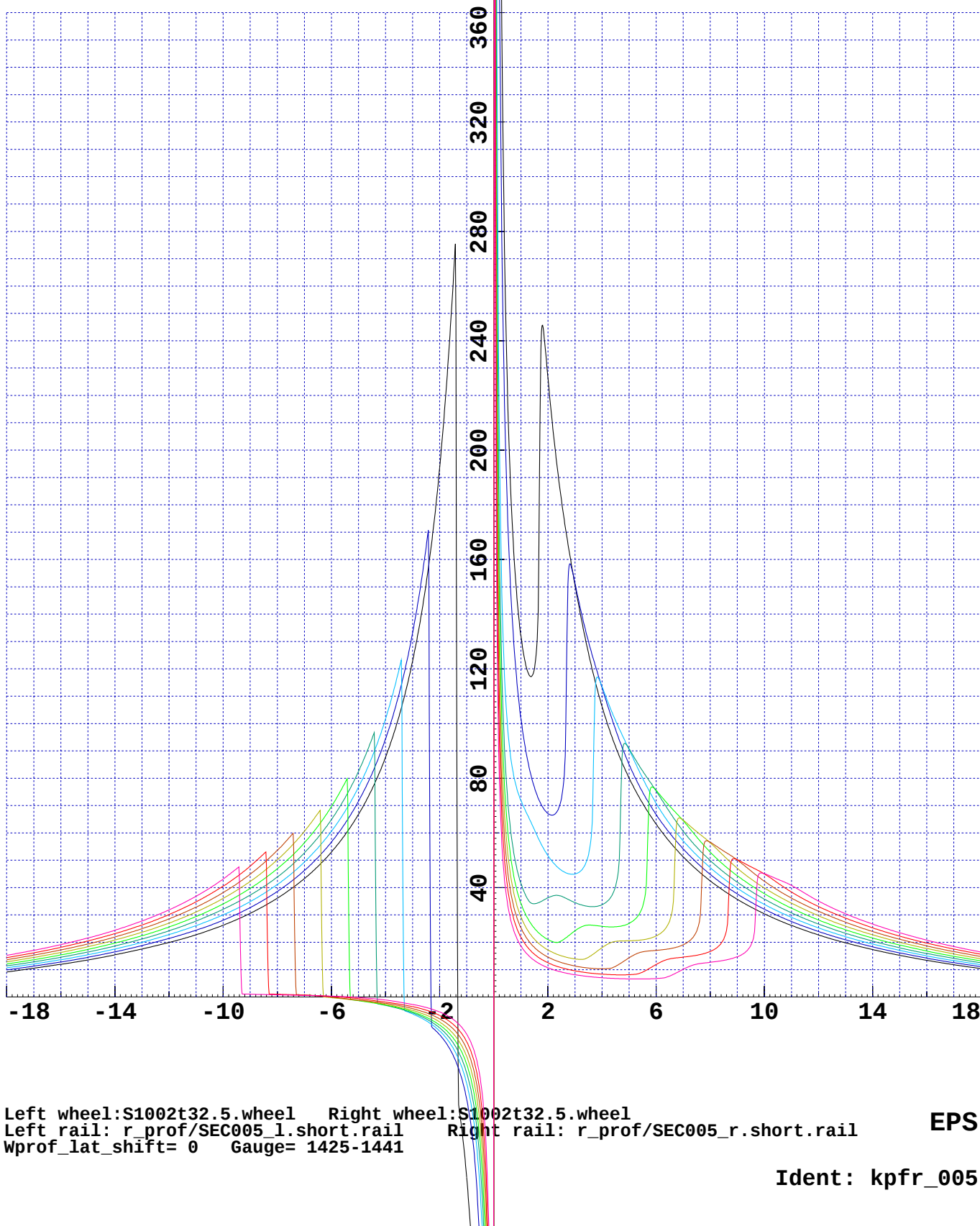
GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	1395.60	310.84	680.45	447.45	272.66	135.08
1427	—	1011.69	245.80	93.87	454.18	335.83	153.83
1429	—	557.16	134.86	70.84	62.90	340.75	181.81
1431	—	458.41	99.41	49.11	47.38	47.19	223.81
1433	—	394.47	84.29	28.11	32.76	35.47	227.01
1435	—	343.41	72.87	22.98	18.65	24.45	31.25
1437	—	298.96	63.24	19.50	15.16	13.83	23.41
1439	—	258.08	54.60	16.70	12.78	11.17	16.10
1441	—	218.83	46.47	14.28	10.87	9.40	9.04



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	1014.71	224.72	226.30	150.54	106.18	63.21
1427	—	746.09	180.10	67.08	151.28	113.08	66.70
1429	—	415.48	100.36	51.63	44.96	113.54	70.81
1431	—	342.46	74.23	36.30	34.53	33.73	75.33
1433	—	294.98	63.01	20.97	24.22	25.85	75.58
1435	—	256.96	54.51	17.17	13.92	18.07	22.33
1437	—	223.81	47.34	14.58	11.33	10.31	17.06
1439	—	193.28	40.88	12.50	9.56	8.35	11.90
1441	—	163.93	34.81	10.69	8.13	7.03	6.74



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge=	1425	7.49	1.68	.89	1.23	1.34	1.32
	1427	5.68	1.29	.49	.60	.92	1.12
	1429	4.68	1.01	.38	.33	.45	.90
	1431	4.01	.86	.29	.26	.25	.62
	1433	3.43	.74	.24	.20	.20	.31
	1435	2.93	.63	.21	.16	.15	.17
	1437	2.49	.54	.18	.14	.13	.13
	1439	2.10	.46	.15	.12	.11	.10
	1441	1.77	.39	.13	.11	.09	.08

