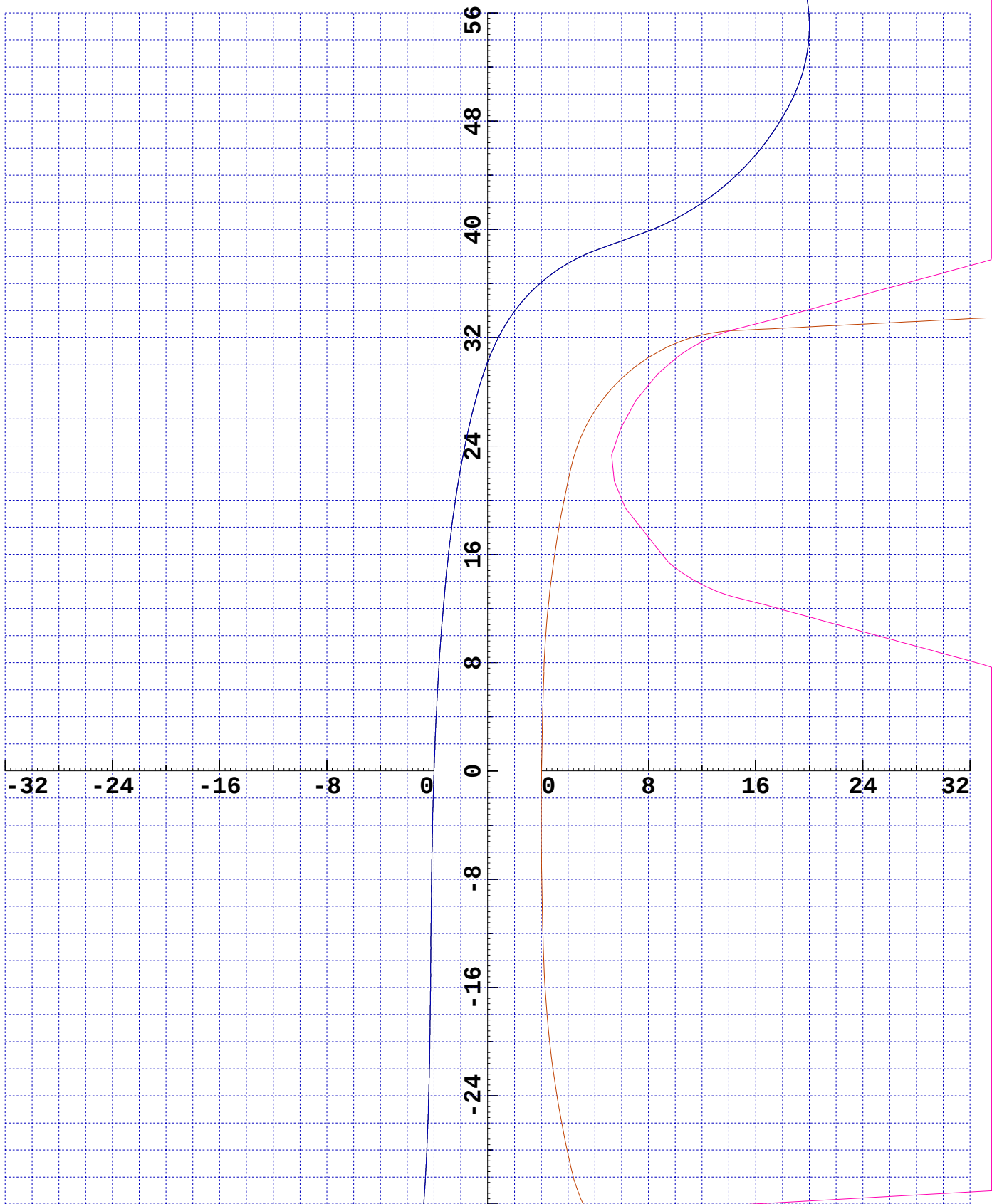
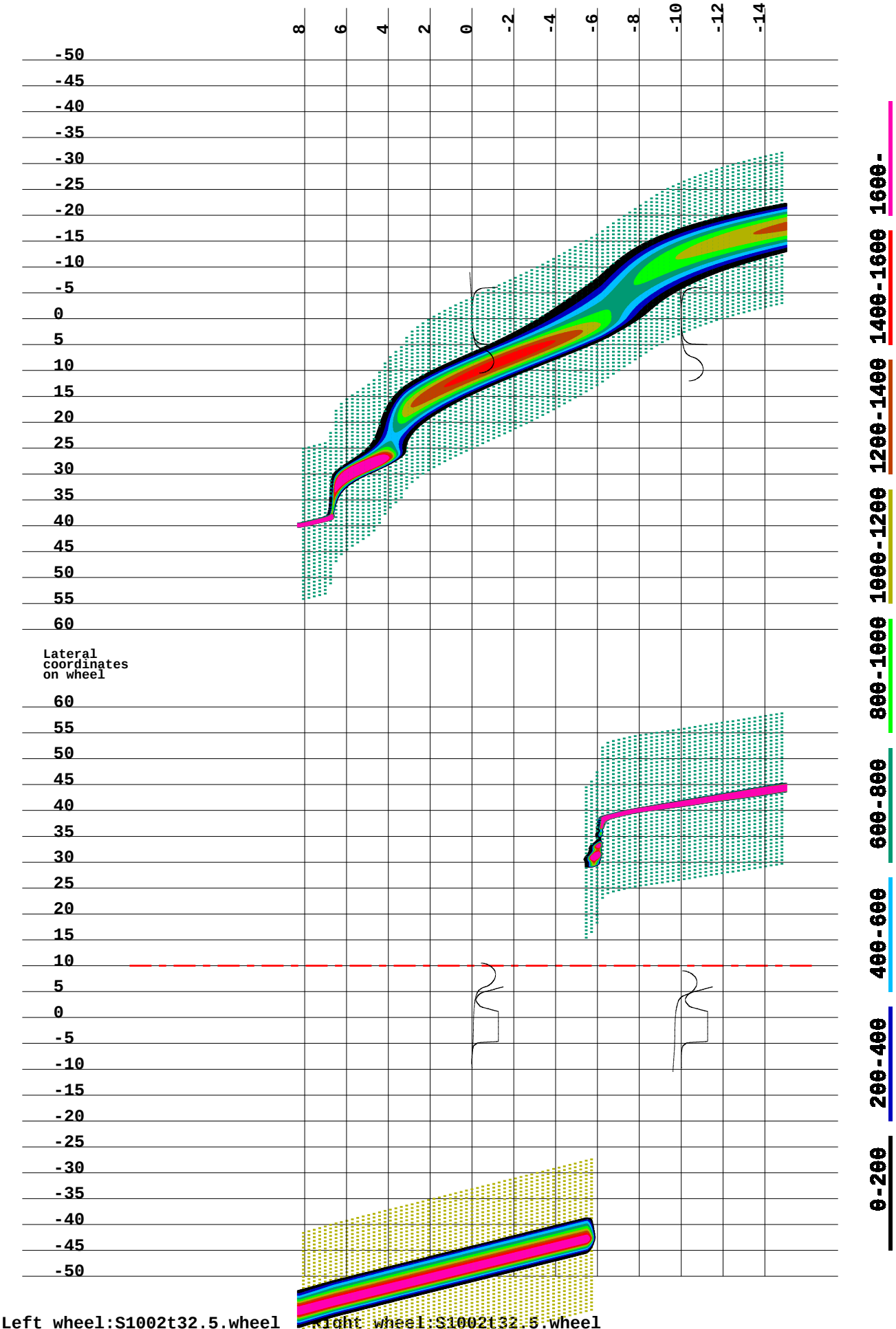


- Right wheel
- Left wheel
- Right rail
- Left rail

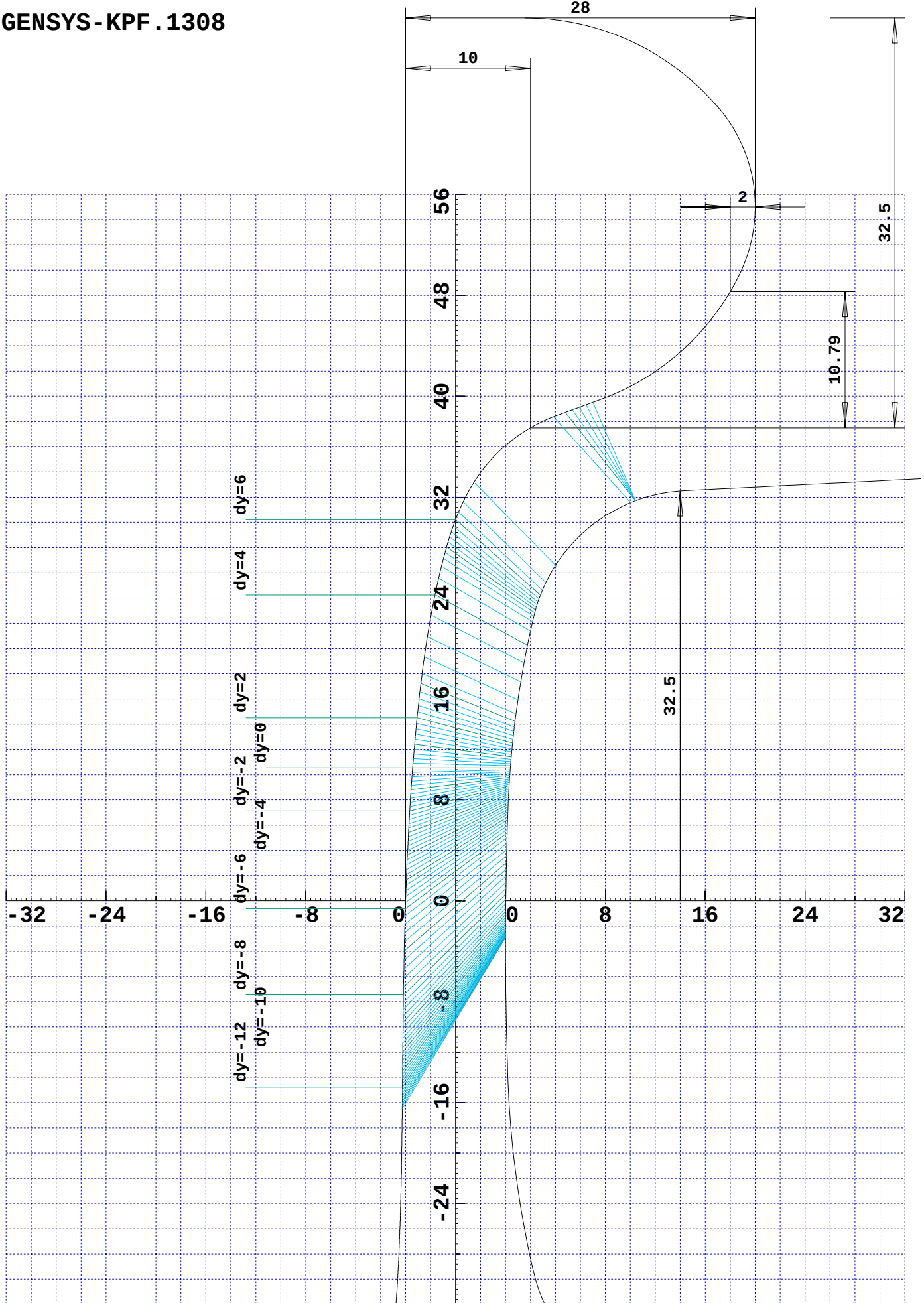


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

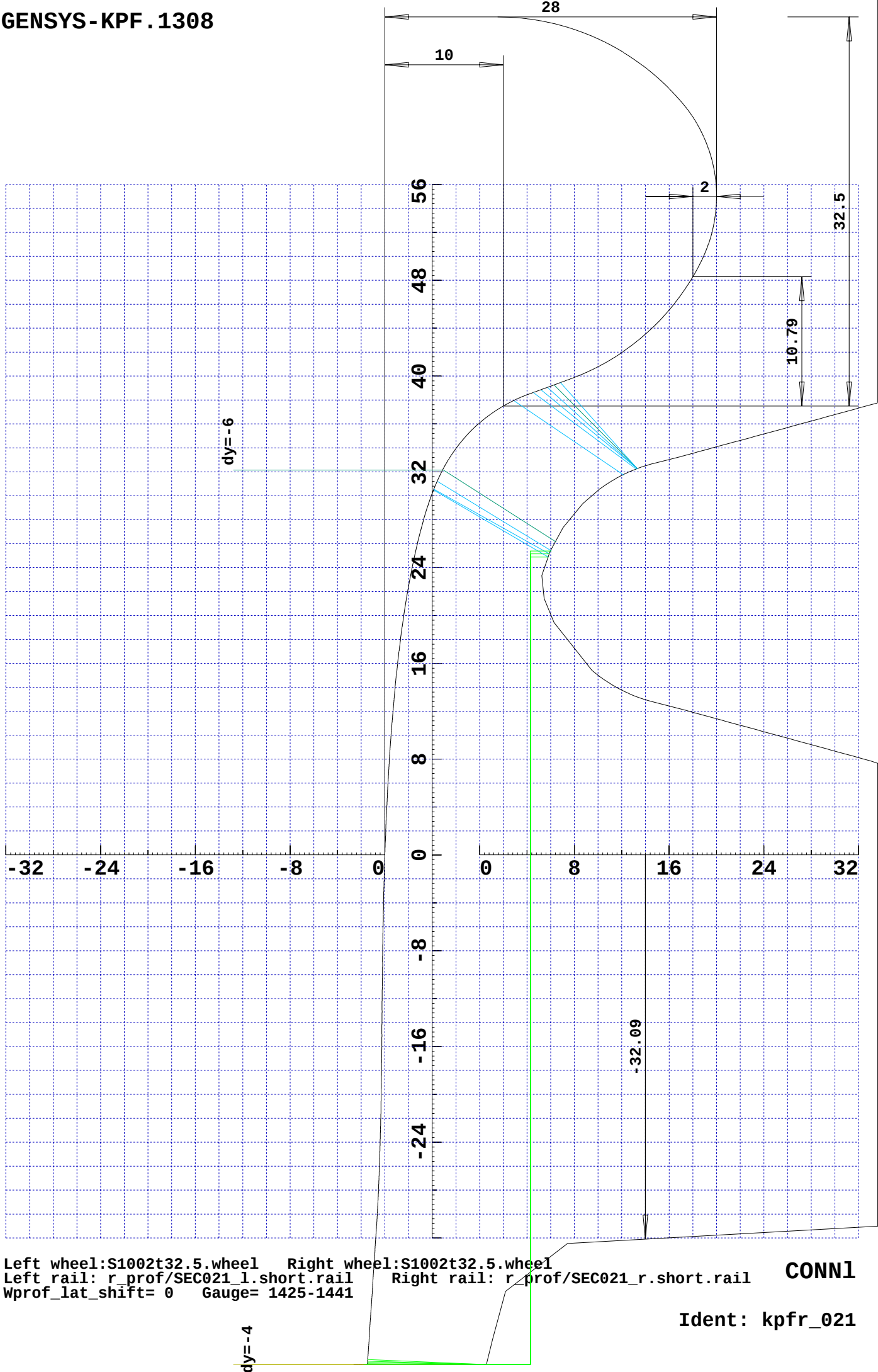
Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.sho
Wprof_lat_shift= 0 Gauge= 1425-1441

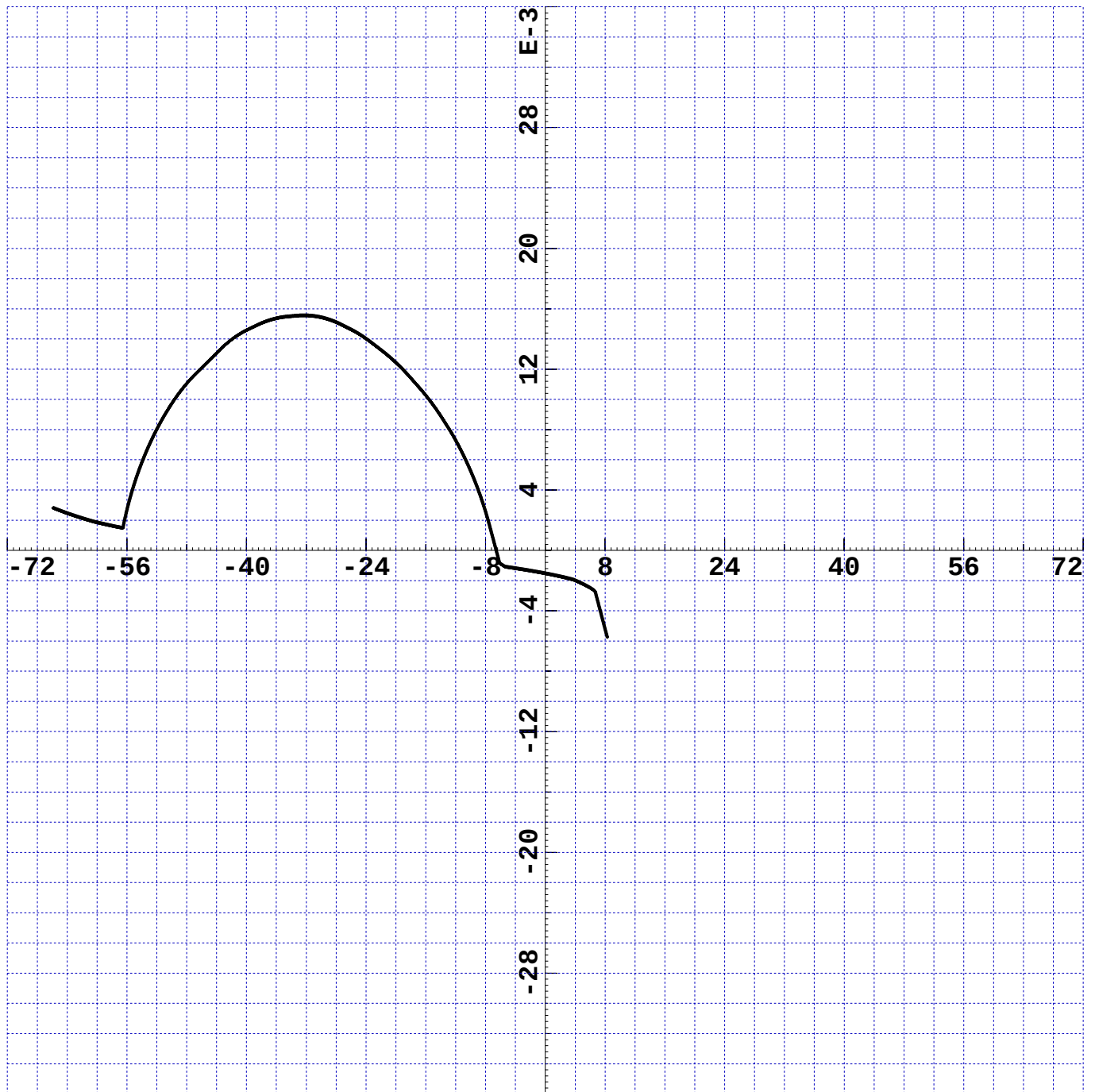
**CONNr**

Ident: kpfr_021



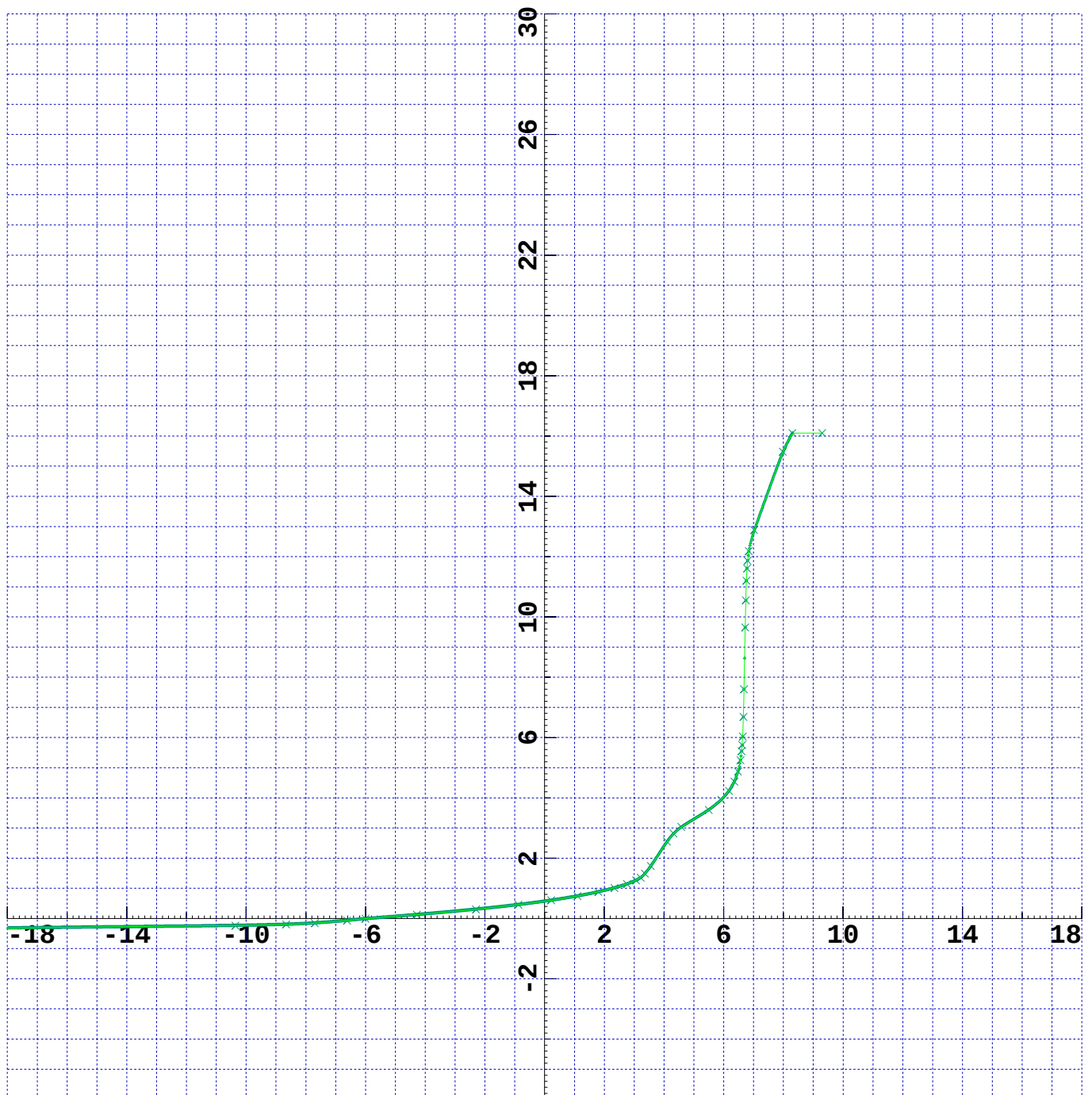
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail CONN1
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flax1**
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

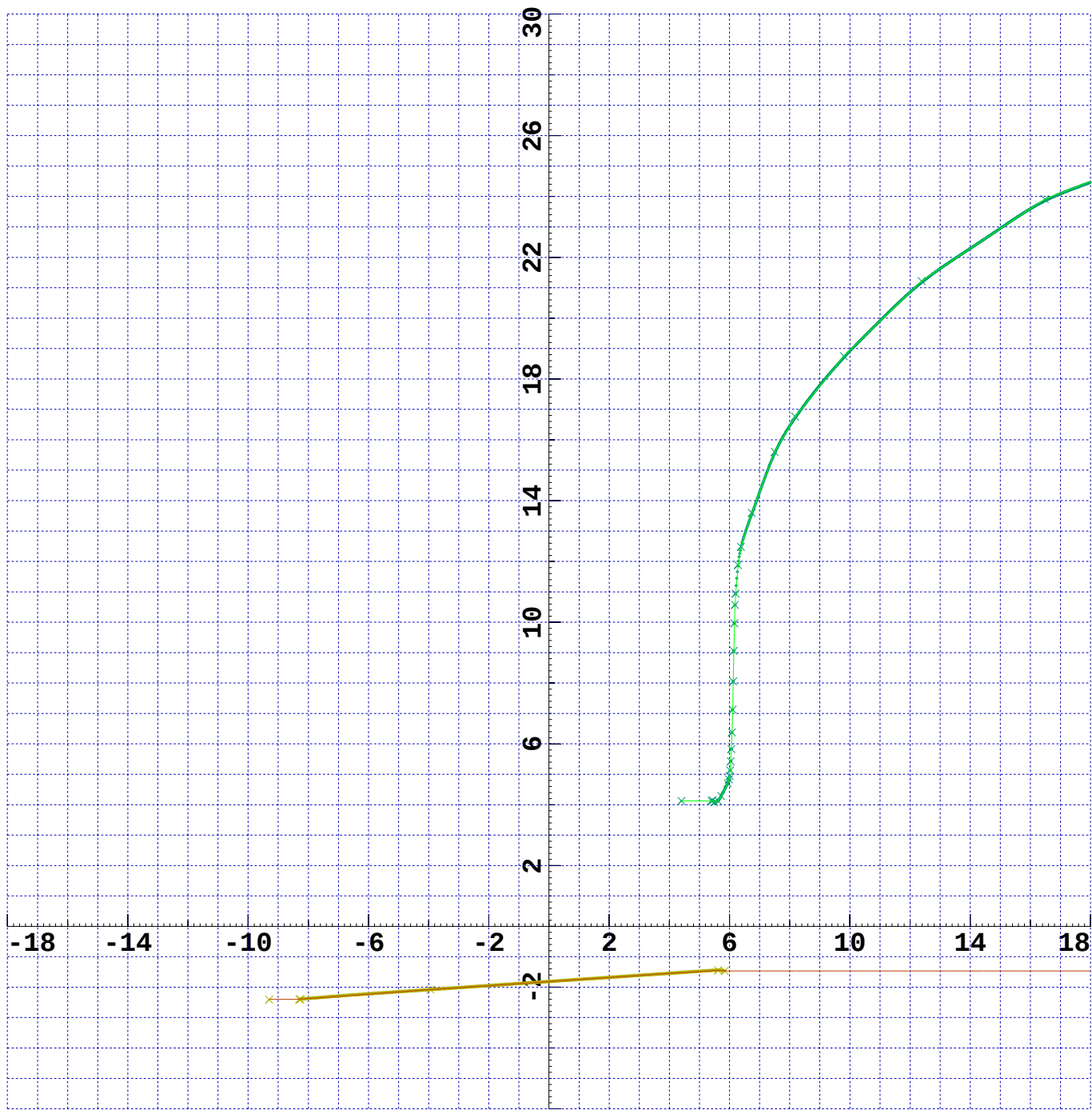
Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

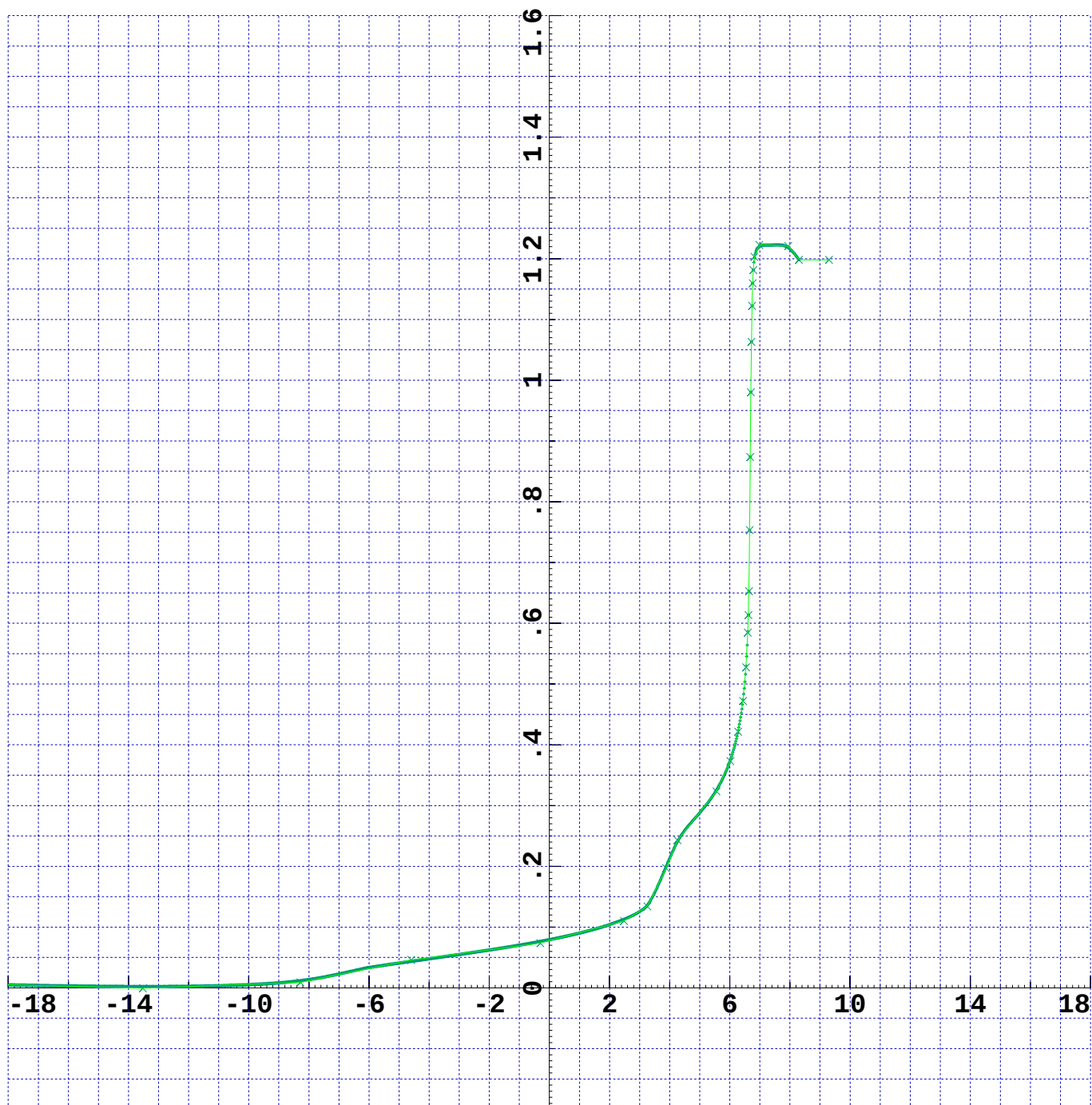
DRFNr

Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel DRFN1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021



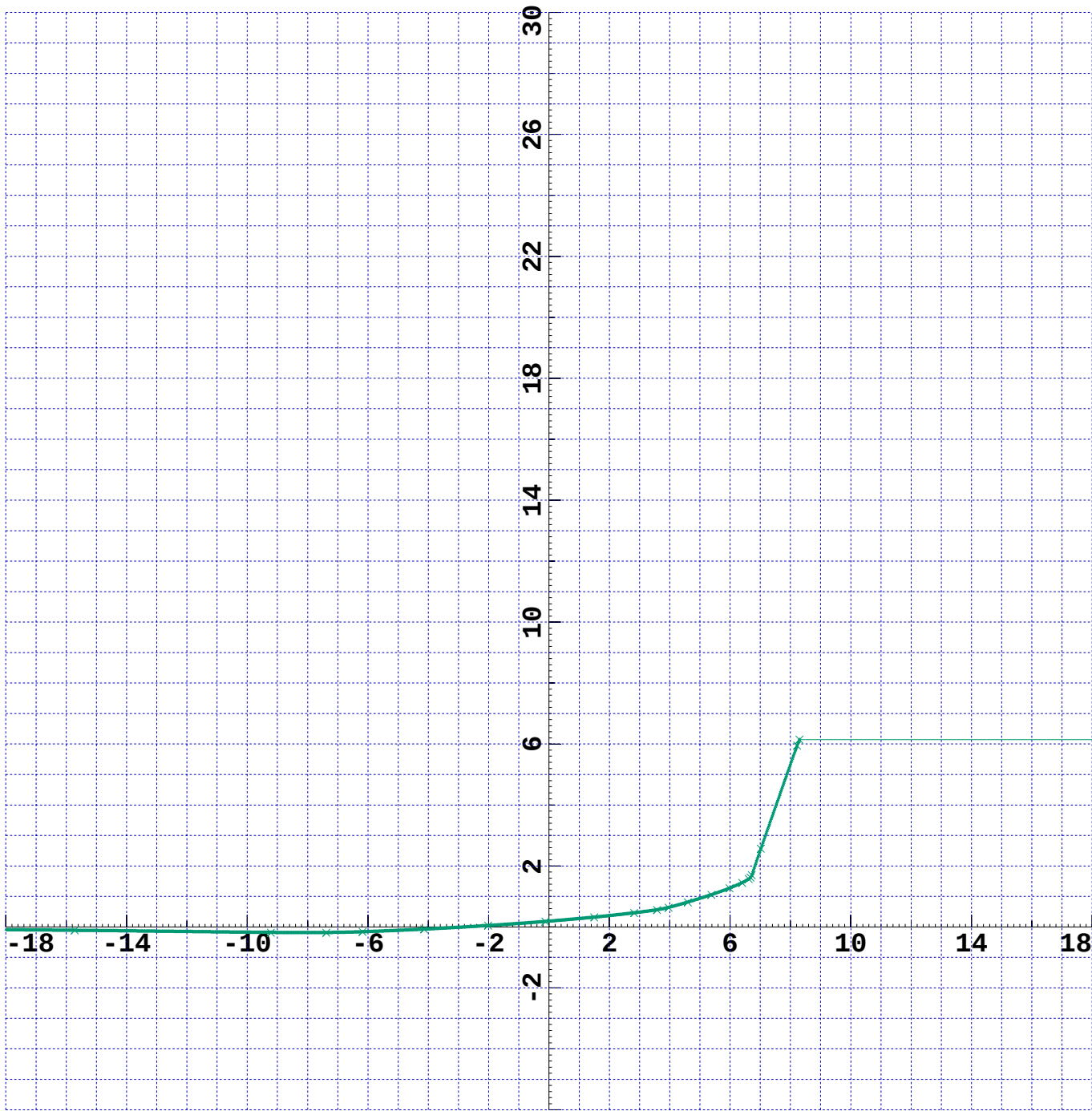
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFNr
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

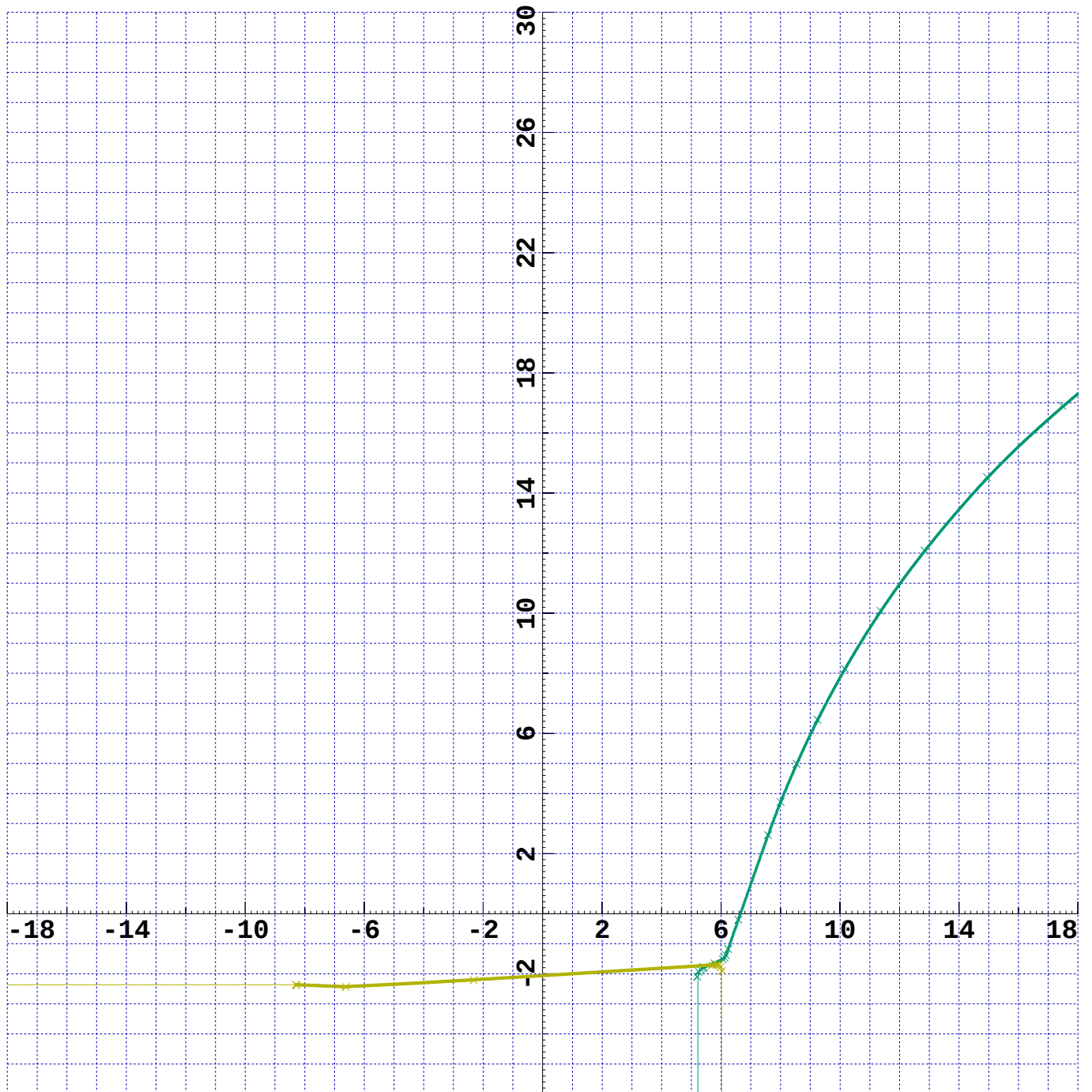
Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel GAMFN1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021

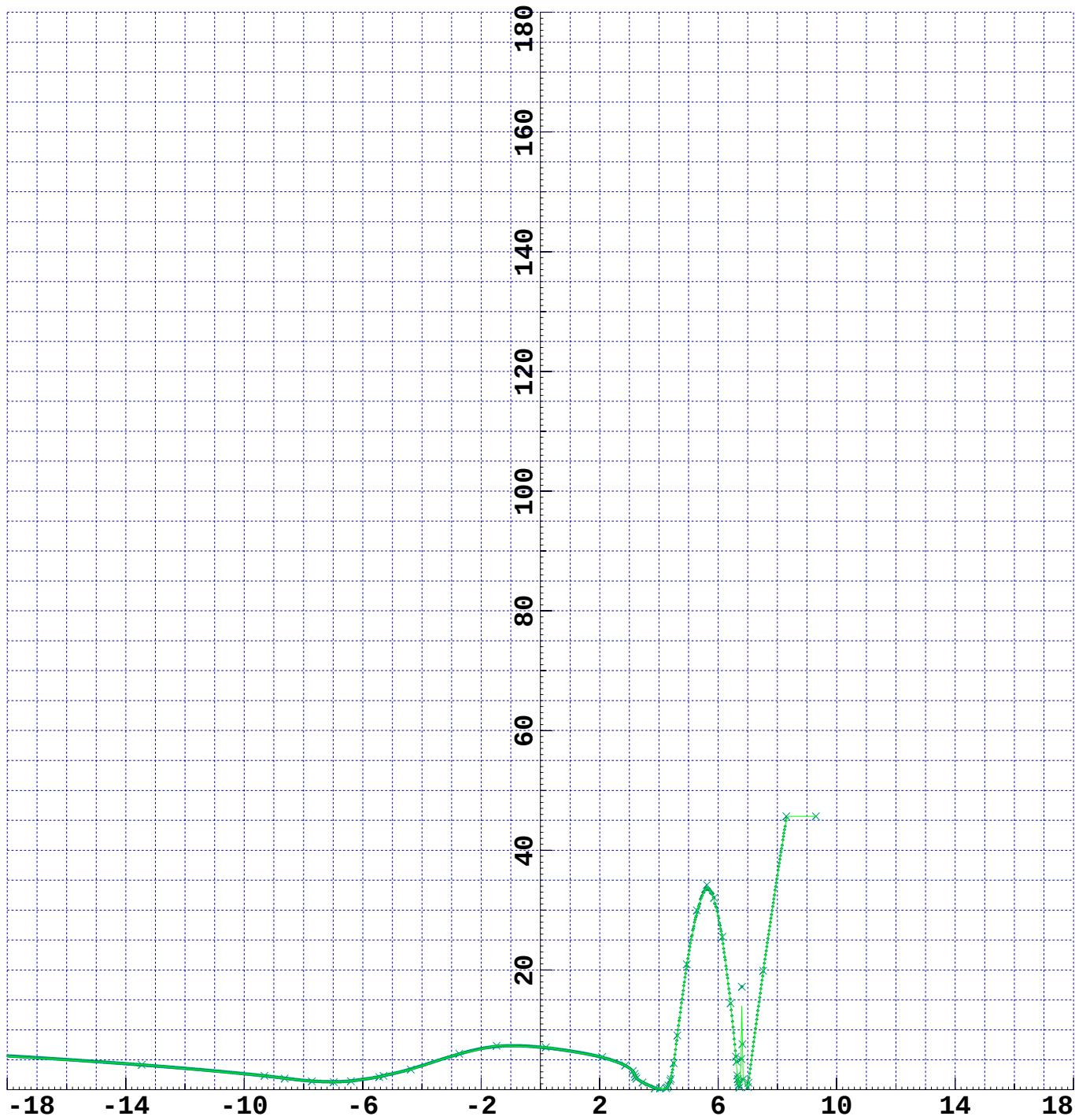




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFN1

Ident: kpfr_021



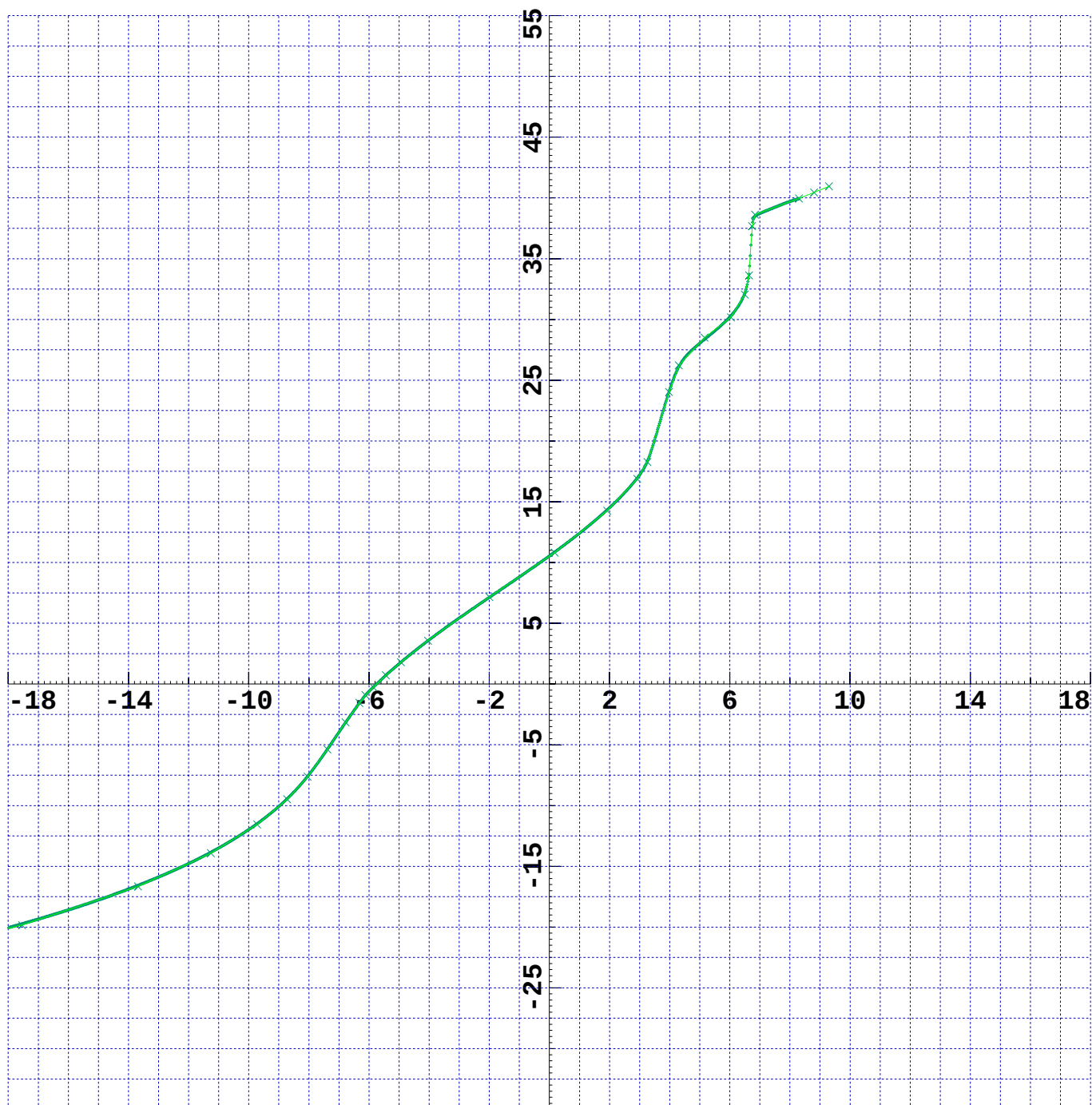
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ROFNr
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ROFN1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

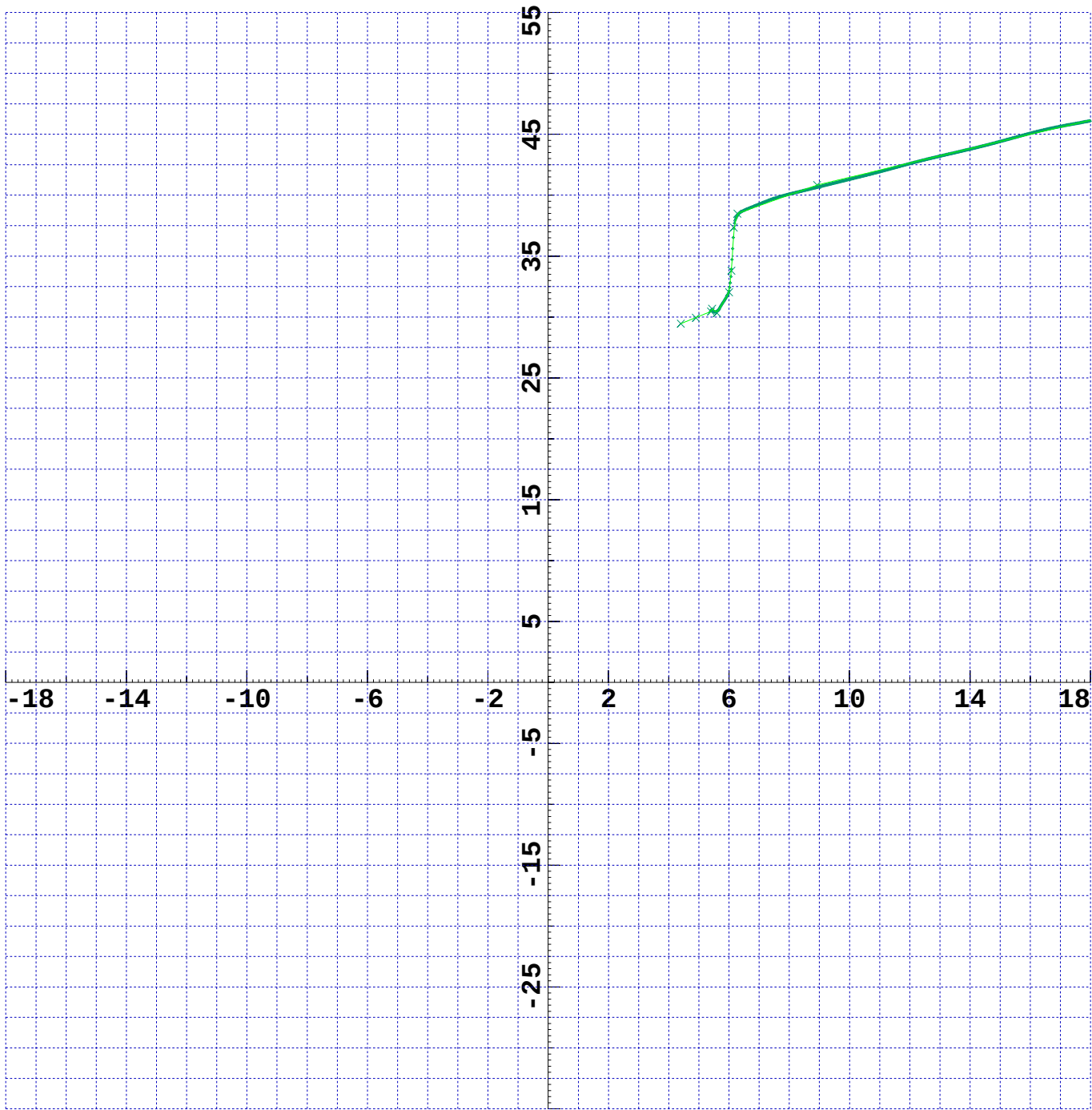
Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

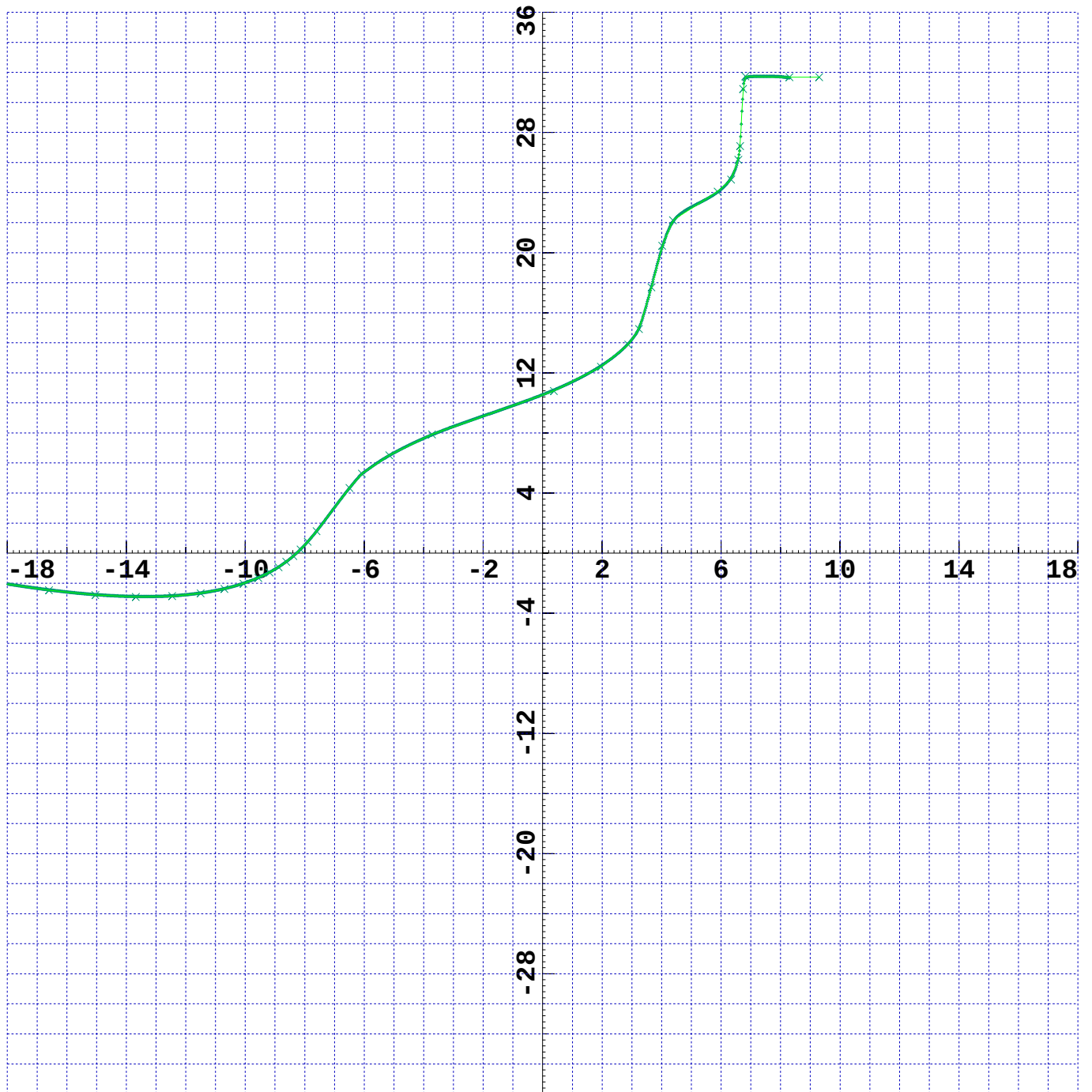
POSWr

Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel POSW1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

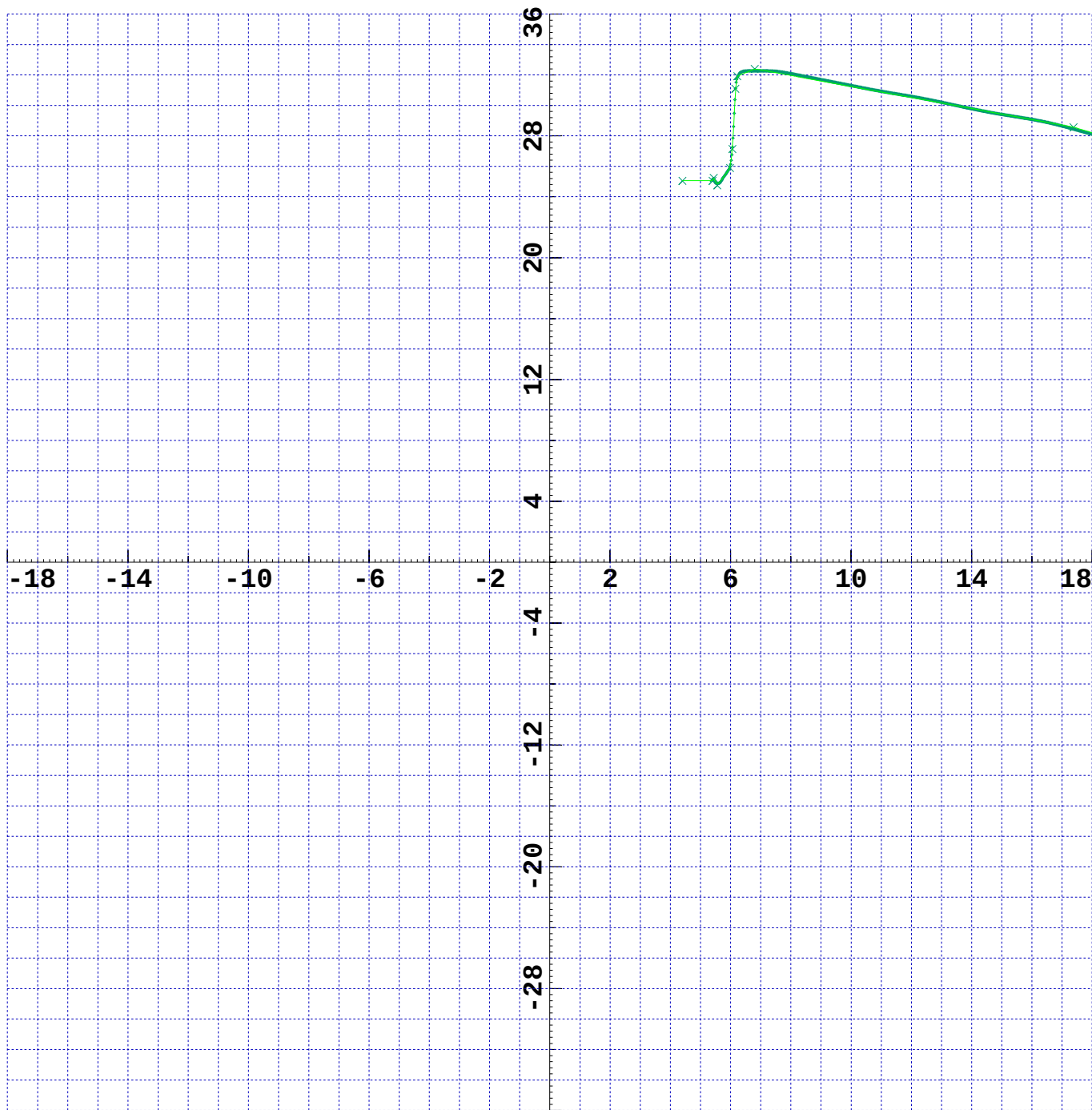
Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

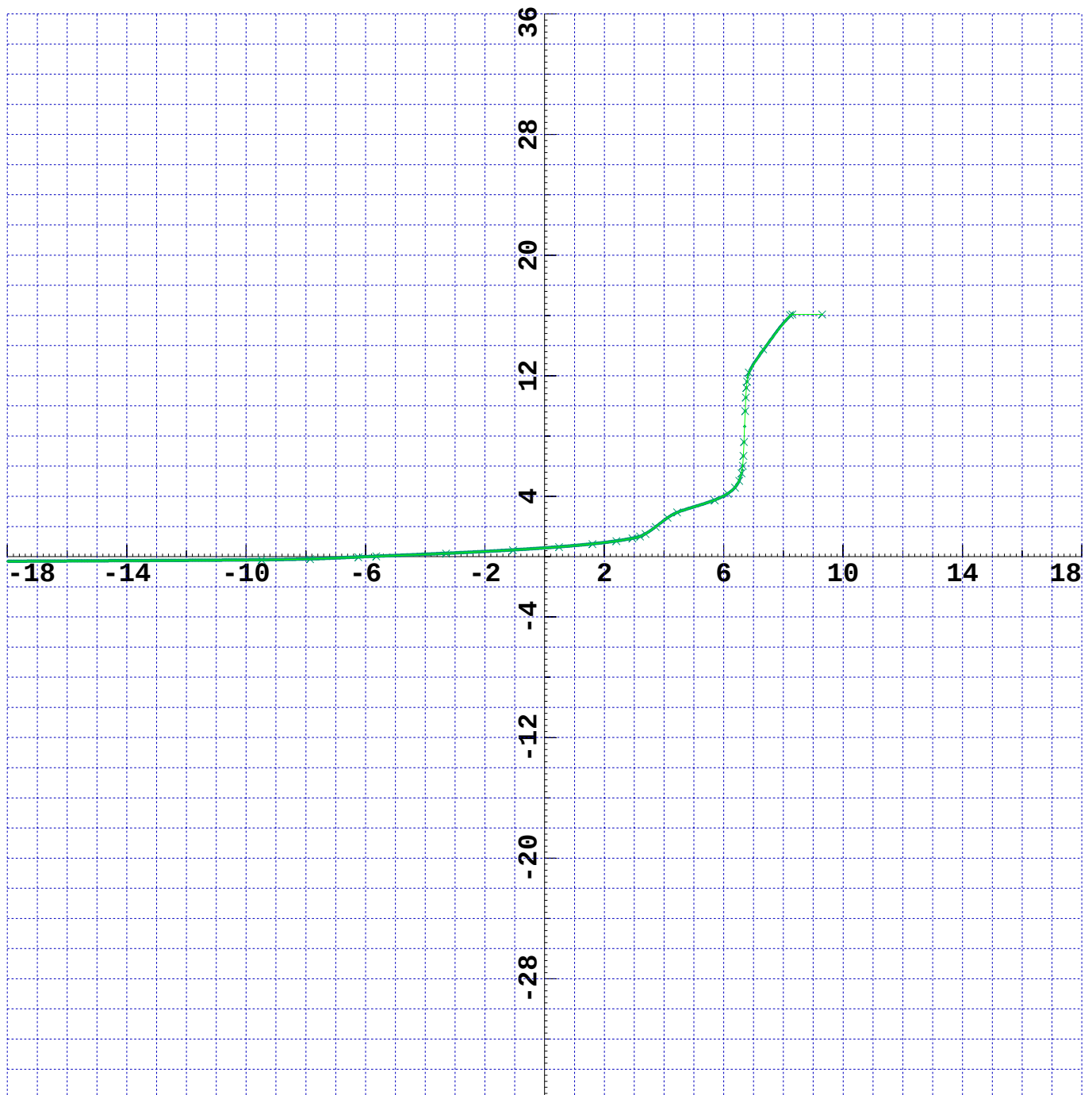
POSRR

Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSR1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

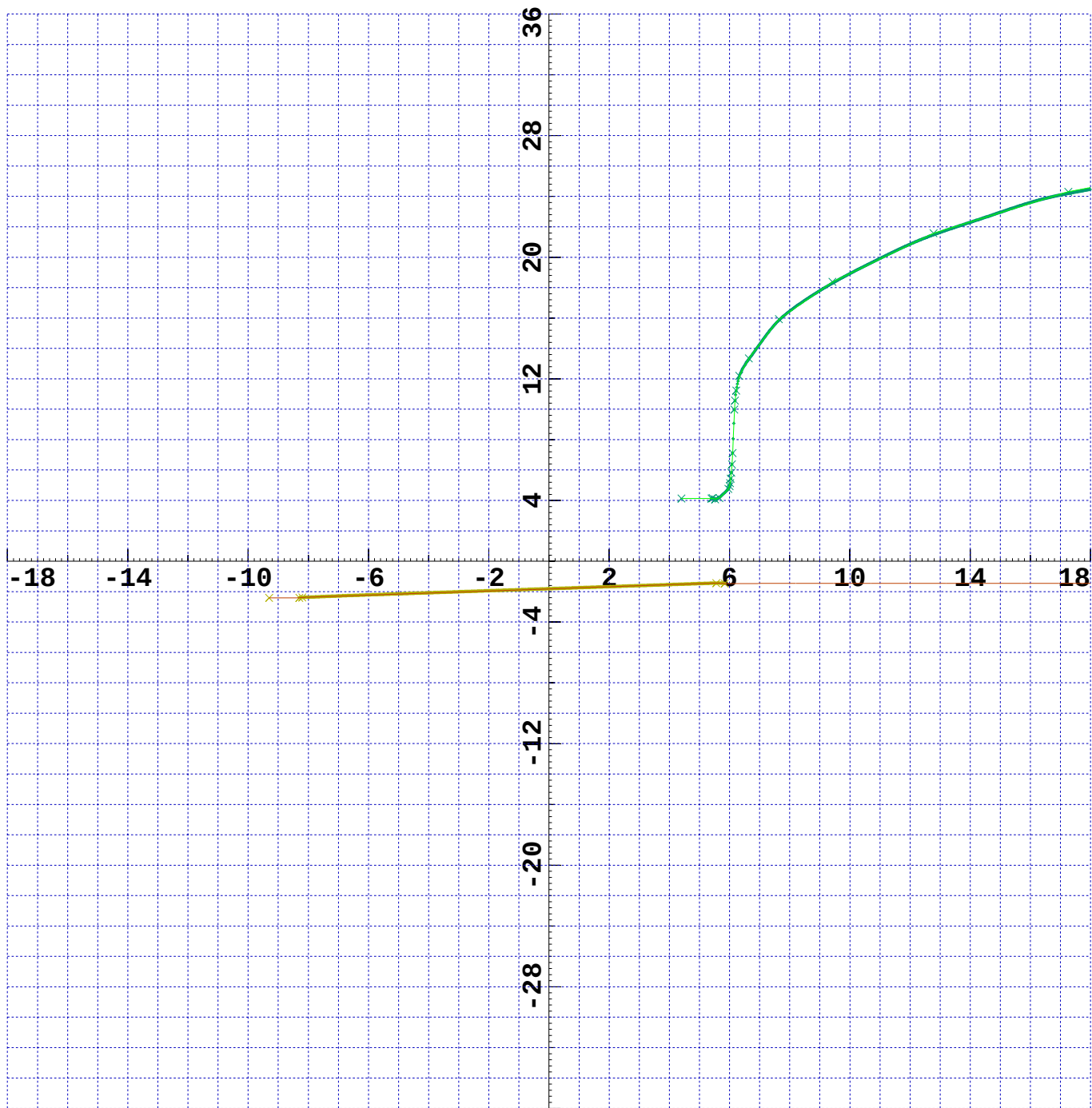
Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

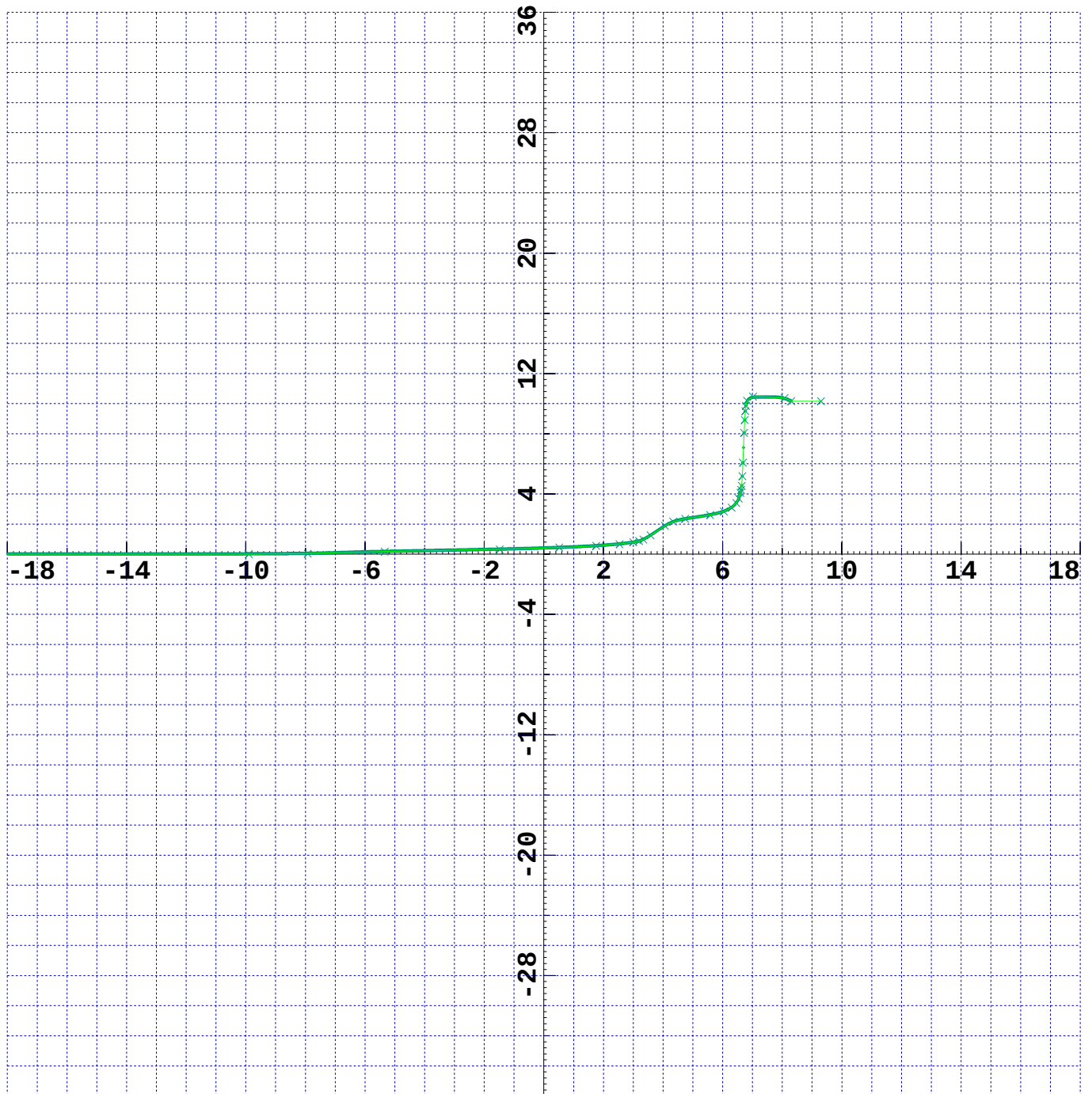
ZWr

Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ZW1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

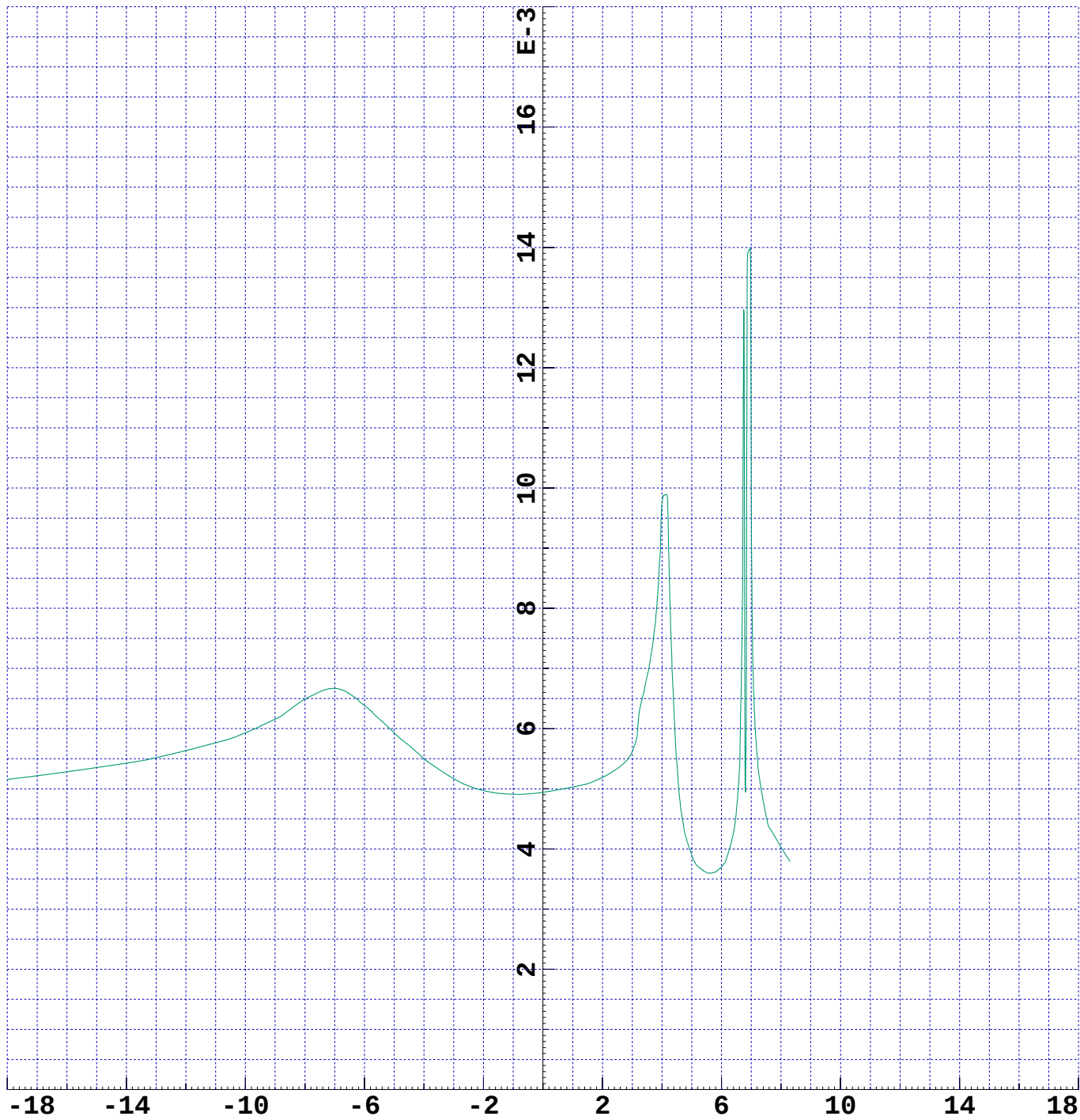
Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

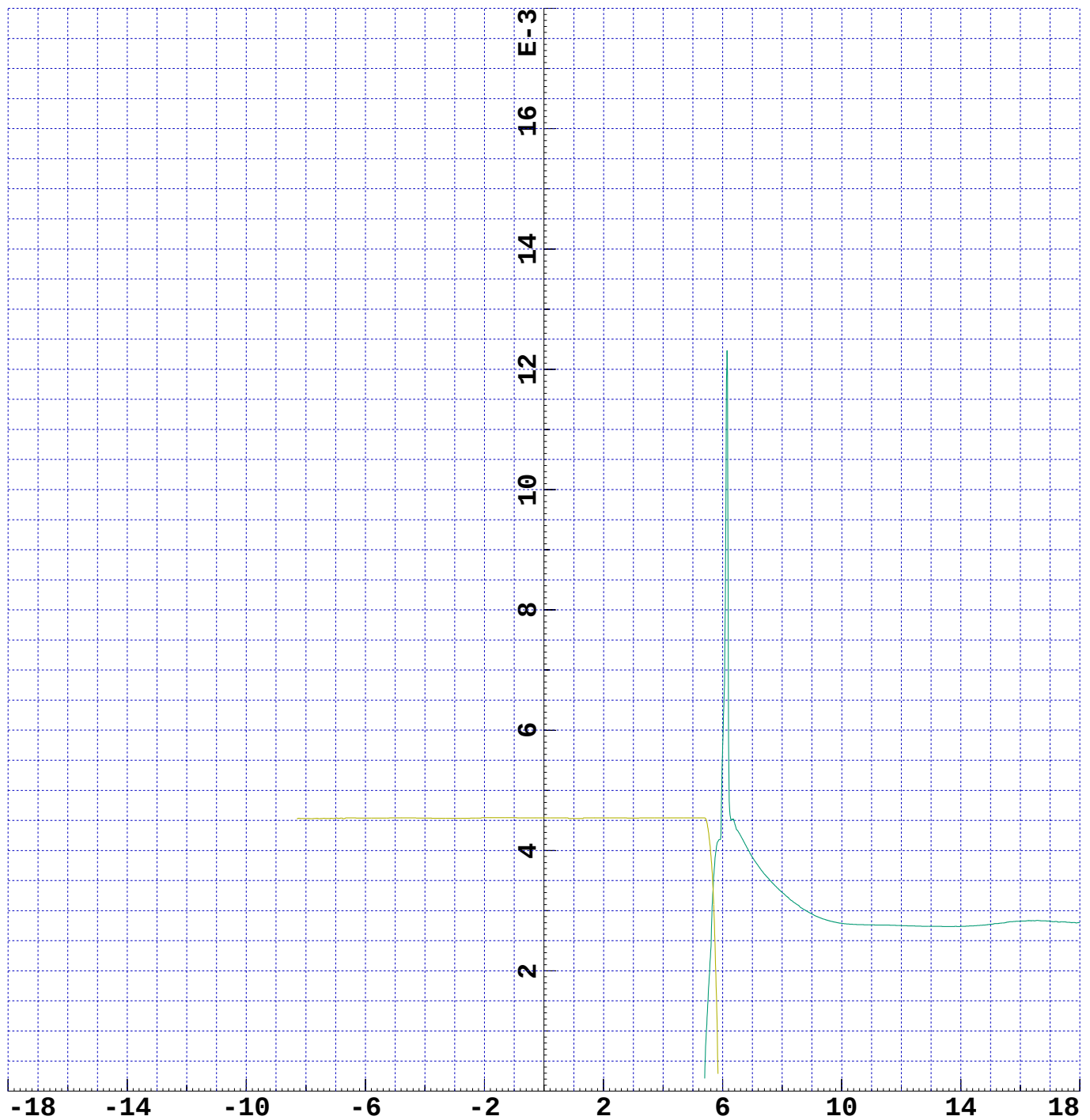
ZR1

Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel C_r
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

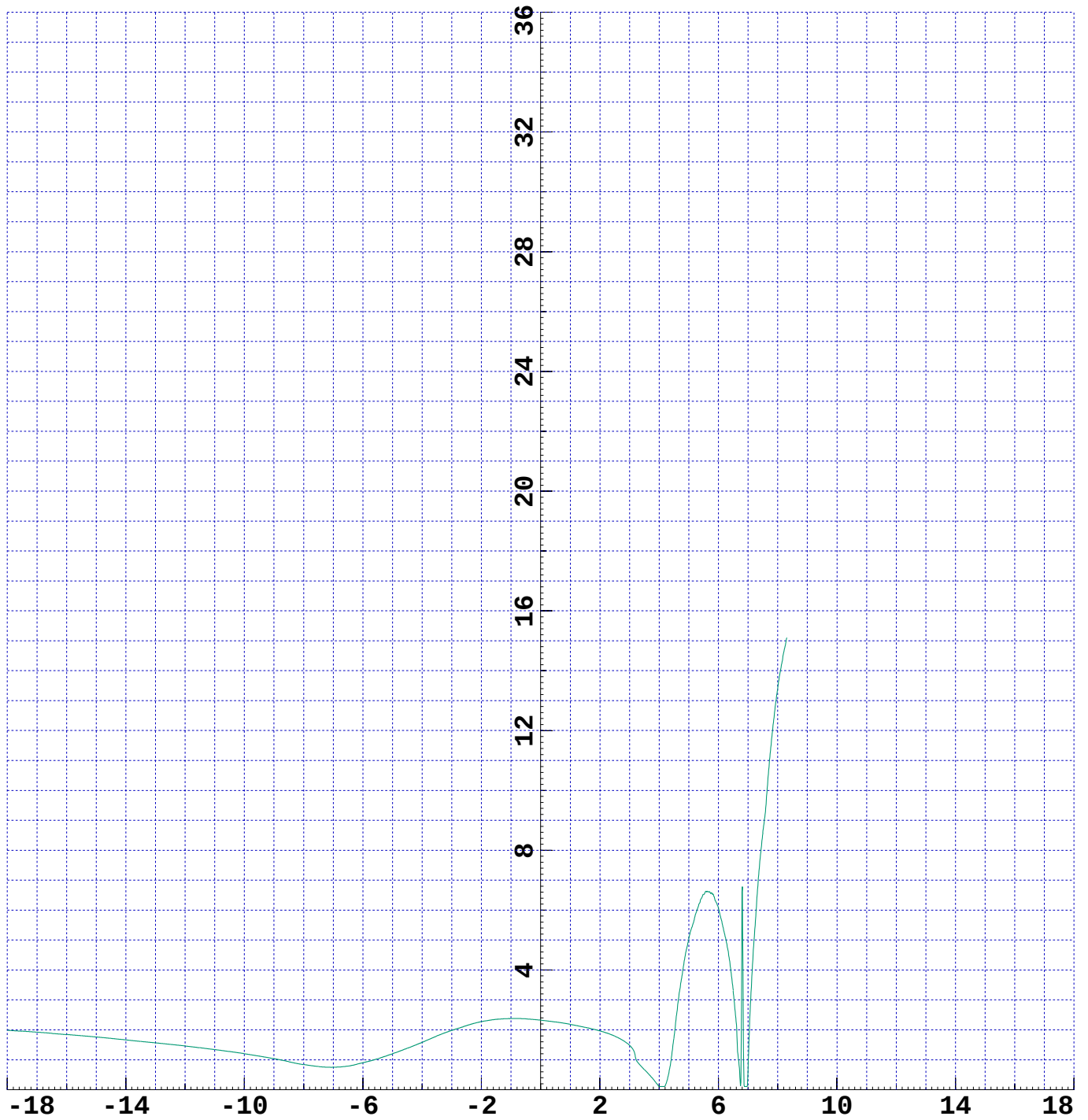
Ident: kpfr_021



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

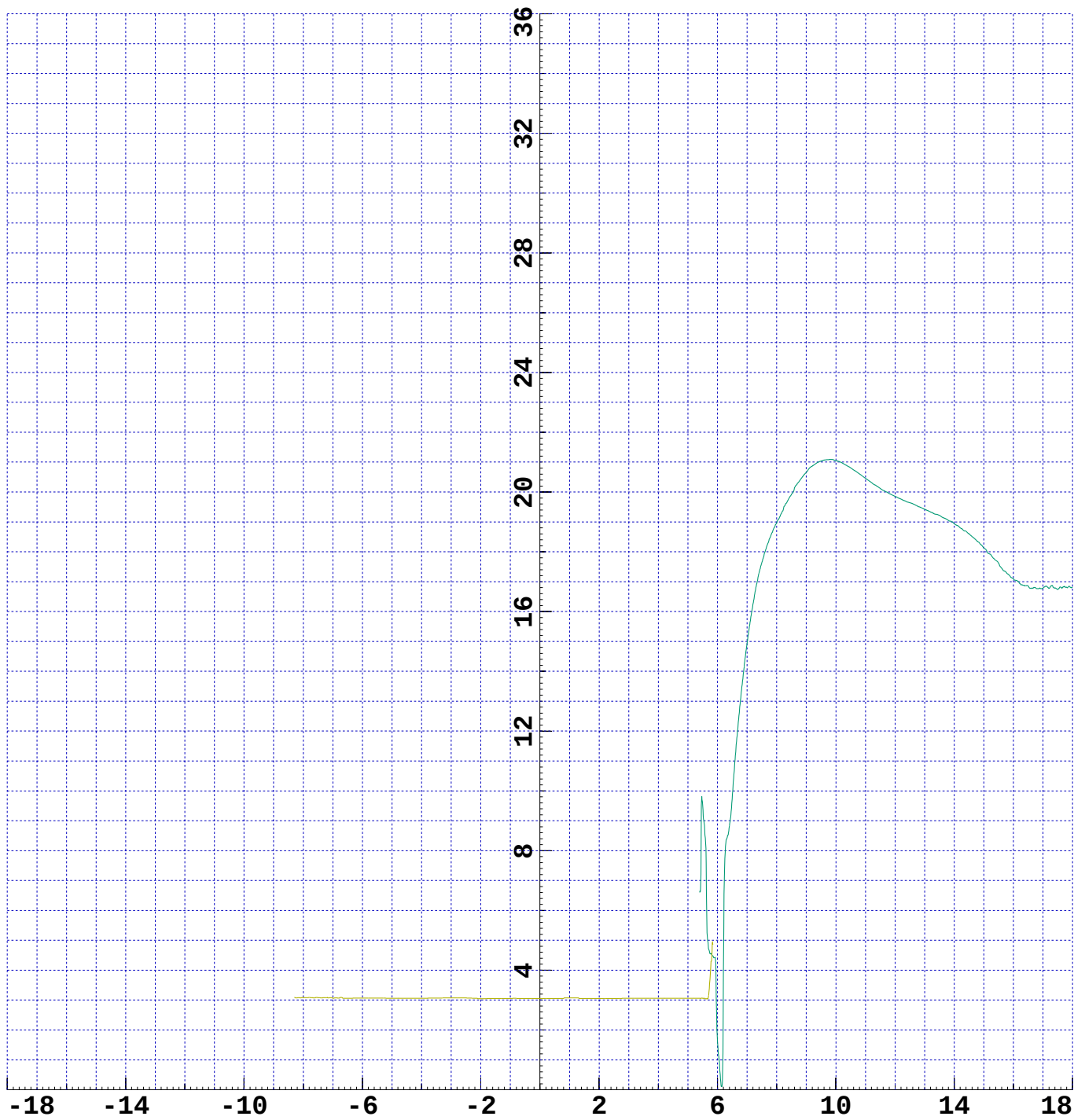
C_1

Ident: kpfr_021



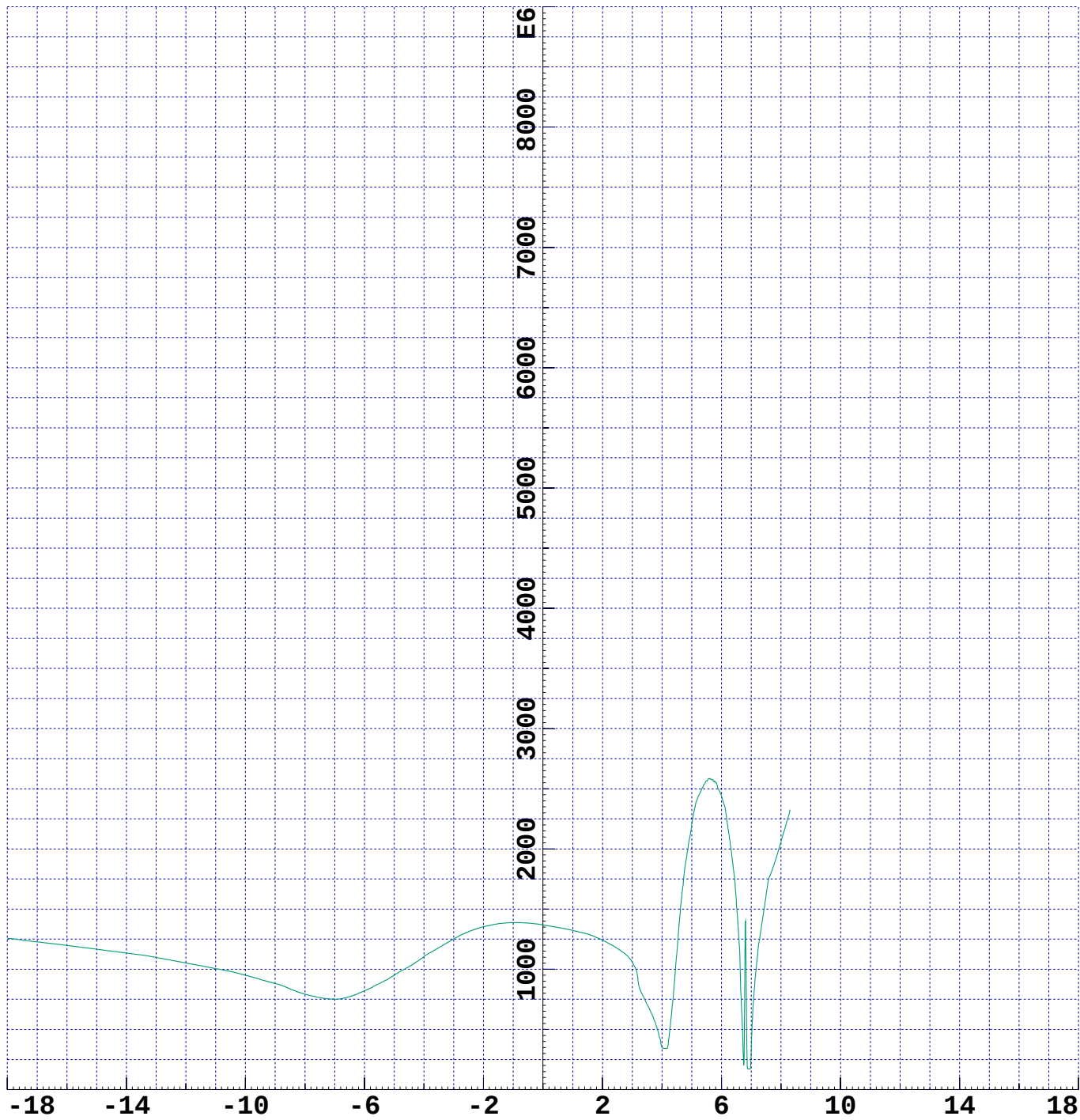
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021

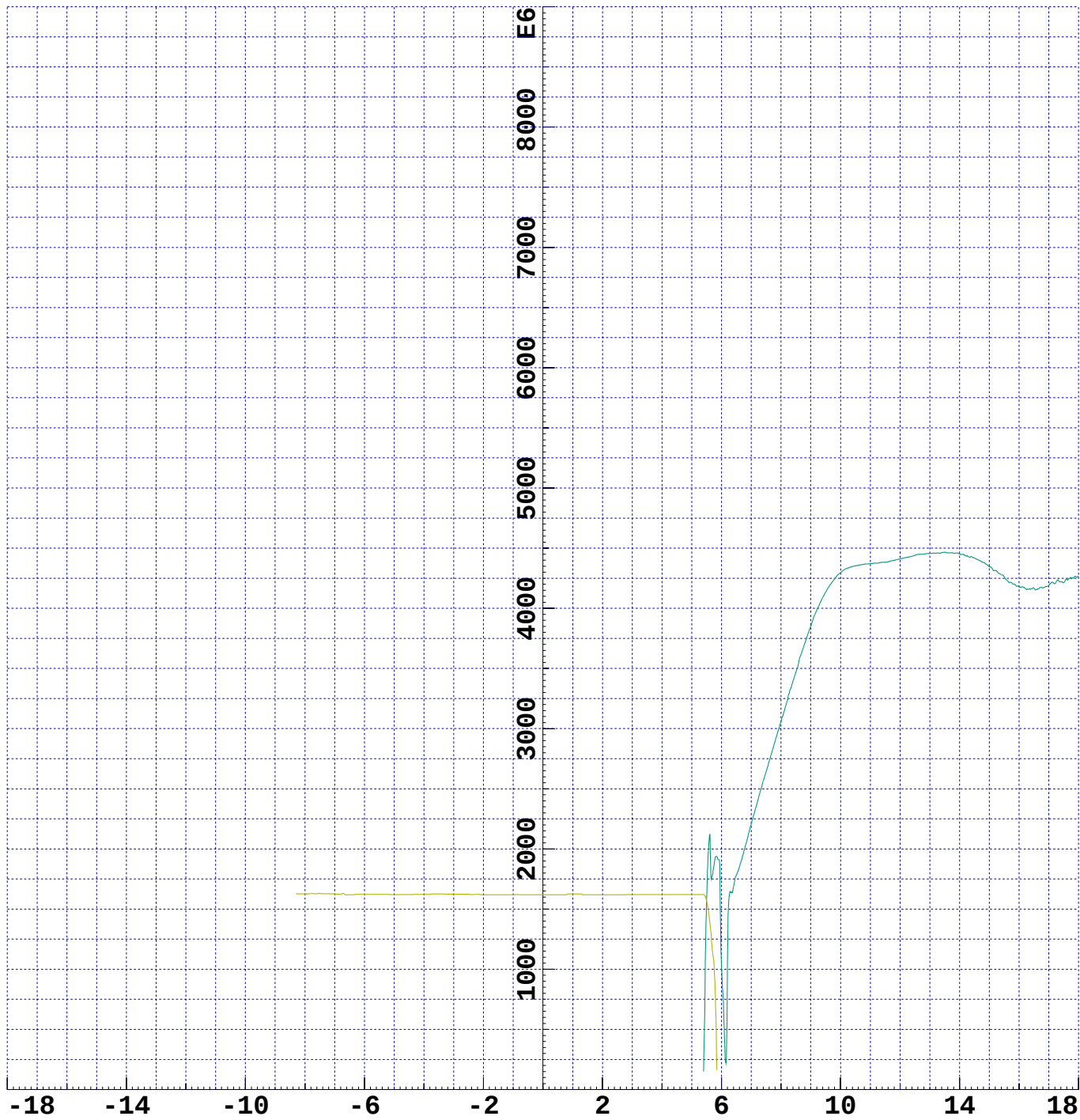


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441
Ident: kpfr_021



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021

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

Radial Steering Index

× = $\Delta r_E = 5.87$ left curve

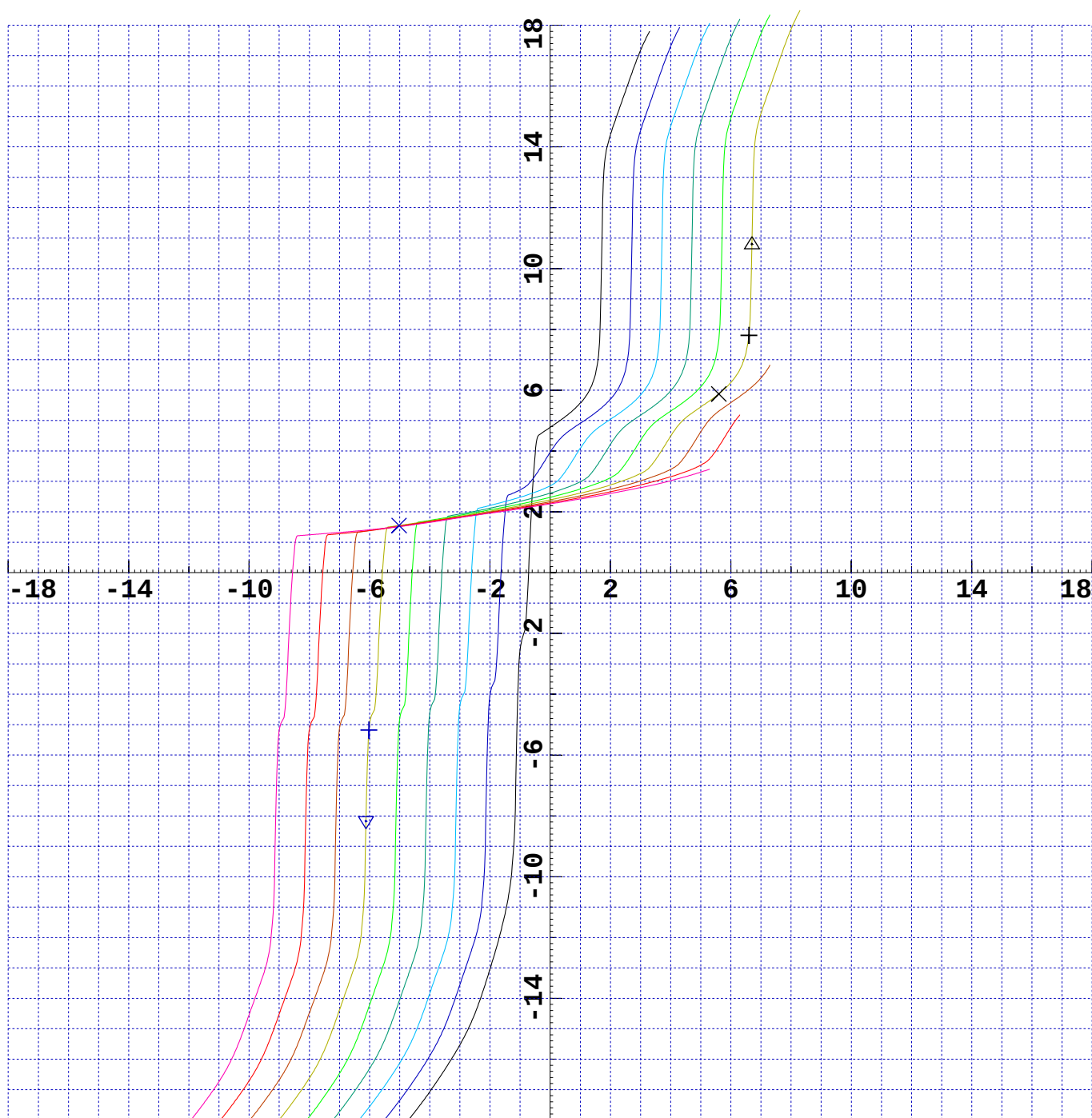
× = $\Delta r_E = 1.55$ right curve

+ = $A0r = 6.60$ 7.80

+ = $A0l = -6.02$ -5.17

possibility of
rolling without
slip

discontinuity
point



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

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

Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail

Wprof_lat_shift= 0 Gauge= 1425-1441

rr-rl

Ident: kpfr_021

GENSYS-KPF.1308

Delta_Y=

.1

.5

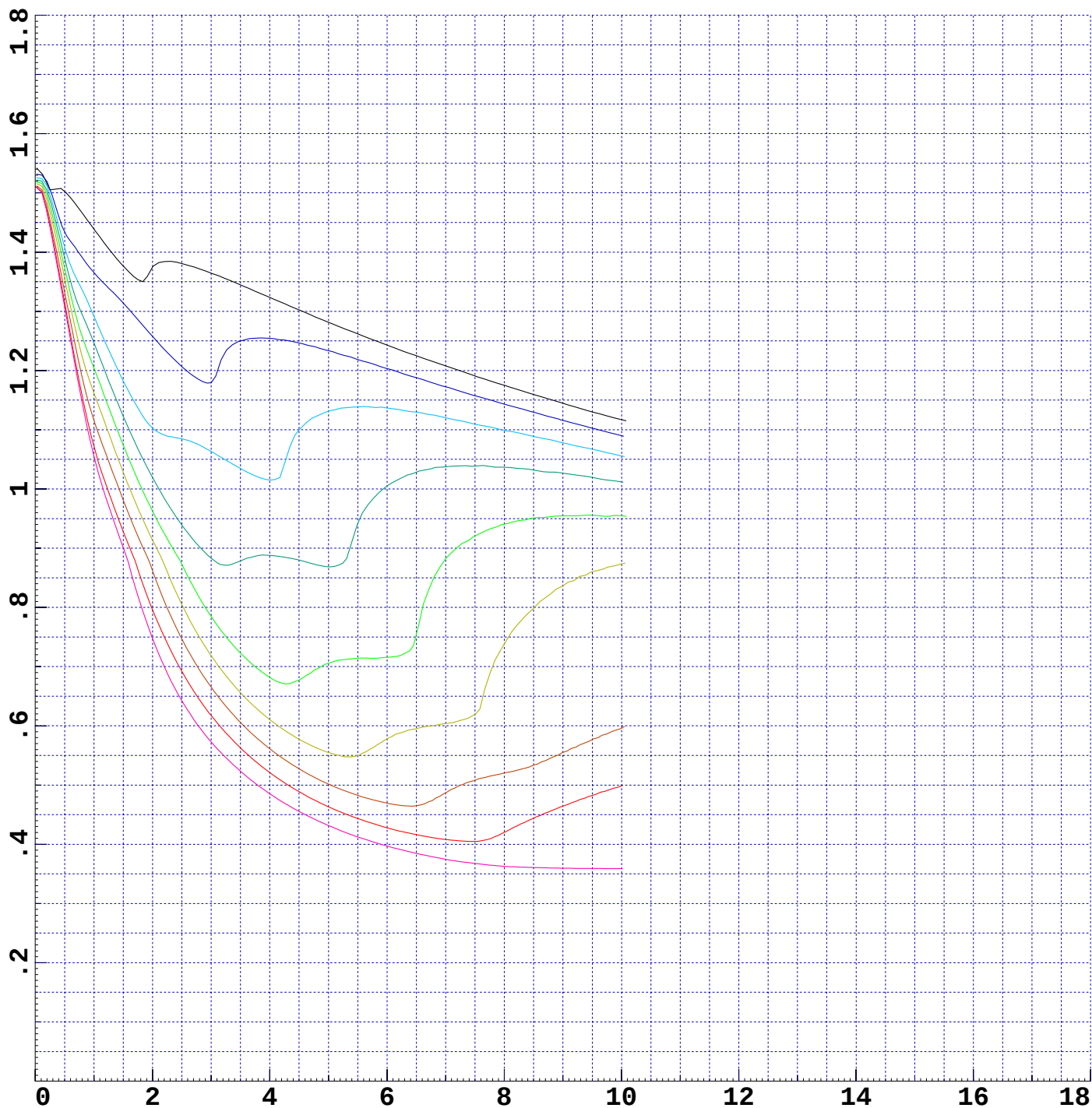
2

3

4

6

Gauge=	1425	—	1.534	1.503	1.374	1.365	1.323	1.243
	1427	—	1.530	1.434	1.257	1.179	1.254	1.203
	1429	—	1.525	1.408	1.103	1.063	1.015	1.137
	1431	—	1.520	1.390	1.019	.883	.888	1.005
	1433	—	1.516	1.374	.963	.785	.682	.716
	1435	—	1.512	1.356	.914	.718	.610	.578
	1437	—	1.506	1.333	.862	.665	.561	.470
	1439	—	1.503	1.315	.796	.617	.521	.428
	1441	—	1.502	1.308	.748	.573	.485	.397



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

Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

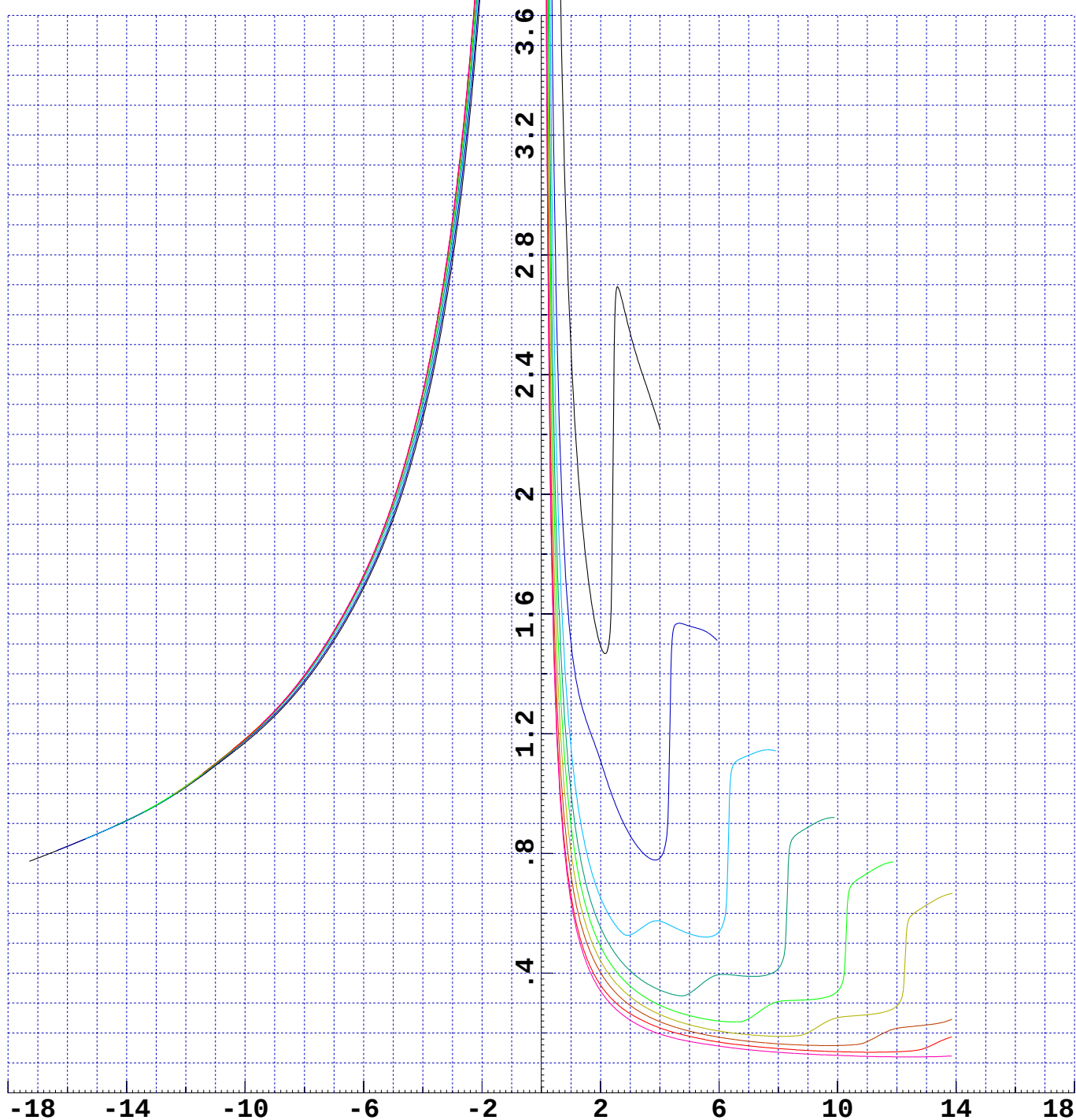
UIC519

Ident: kpfr_021

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	10.656	4.630	1.492	2.537	2.221	1.580
	1427	7.864	2.658	1.108	.860	.784	1.505
	1429	7.193	2.183	.651	.528	.574	.539
	1431	6.735	1.909	.552	.407	.343	.395
	1433	6.357	1.708	.489	.357	.293	.240
	1435	6.002	1.541	.441	.321	.262	.207
	1437	5.598	1.374	.401	.292	.238	.186
	1439	5.363	1.272	.360	.264	.217	.170
	1441	5.269	1.236	.340	.243	.197	.156

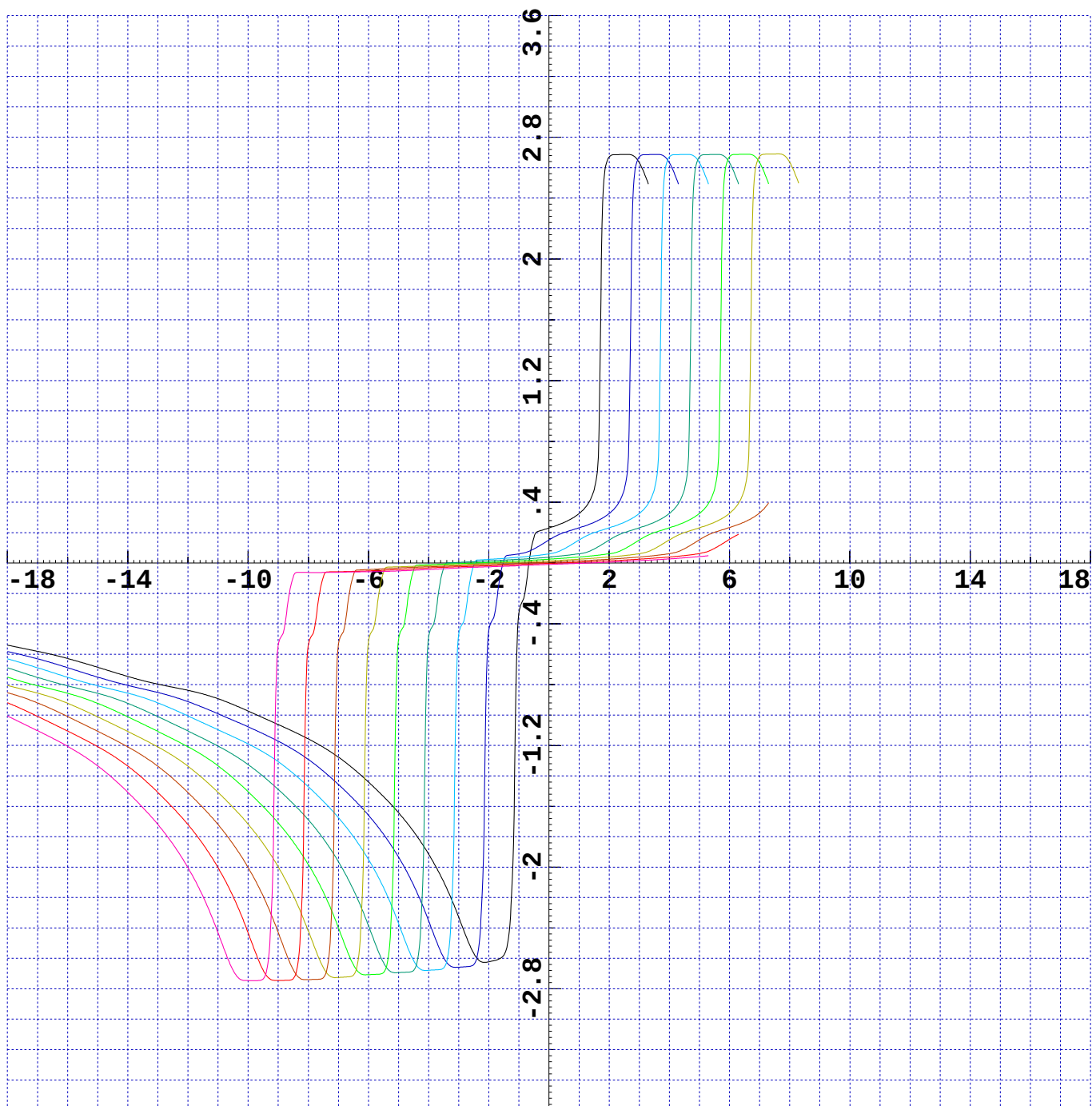


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **lambda**
 Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021

GENSYS - KPF . 1308

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

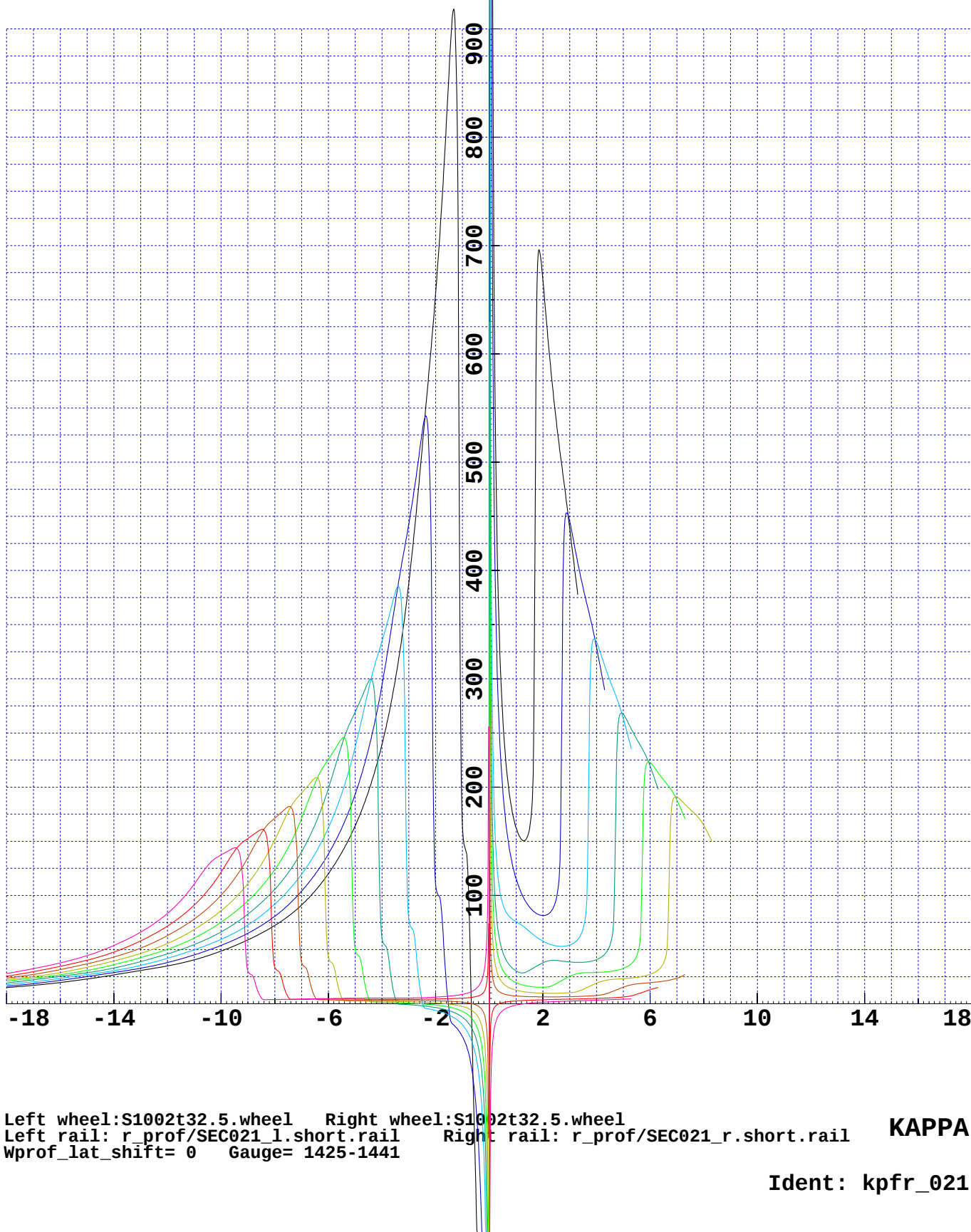


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel tan_Ga
 Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	1186.44	267.14	667.87	438.67	239.45	155.29
1427	—	815.33	199.80	81.35	445.28	329.02	67.56
1429	—	320.20	92.68	57.80	54.27	333.98	168.22
1431	—	202.95	48.19	37.91	38.56	40.72	219.39
1433	—	130.81	31.46	15.25	25.31	28.95	222.70
1435	—	75.65	19.33	9.82	10.21	19.02	27.21
1437	—	29.92	9.55	6.33	6.59	7.70	19.42
1439	—	-10.12	1.17	3.65	4.29	5.00	12.95
1441	—	-46.74	-6.38	1.43	2.51	3.35	5.34

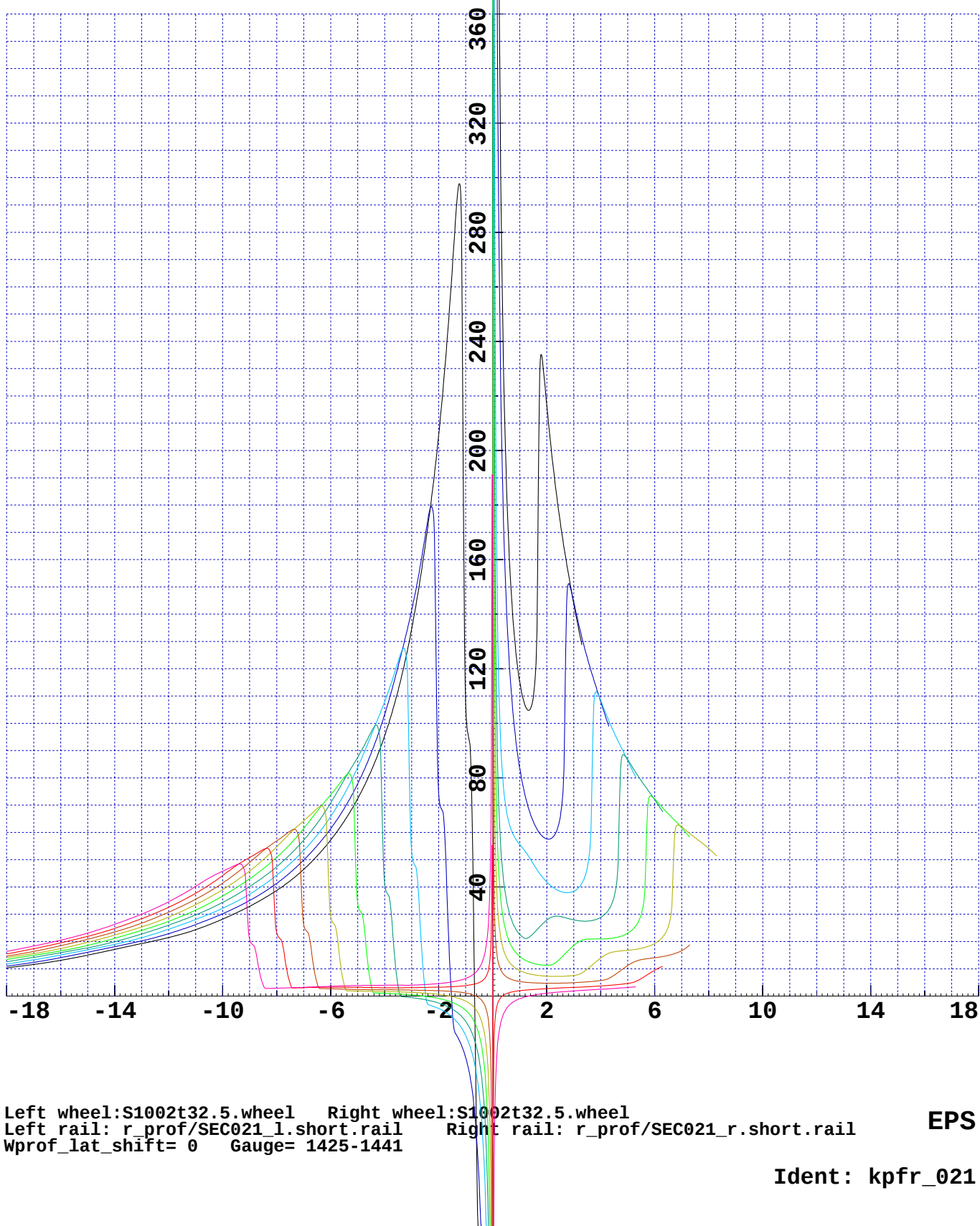


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC021_l.short.rail Right rail: r_prof/SEC021_r.short.rail KAPPA
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_021

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	857.26	191.79	216.60	143.82	95.56	.78
1427	—	597.38	145.44	57.61	144.42	107.88	48.96
1429	—	237.82	68.61	41.82	38.43	108.33	66.01
1431	—	151.08	35.85	27.83	27.90	28.84	71.95
1433	—	97.50	23.44	11.33	18.58	20.95	72.26
1435	—	56.44	14.42	7.31	7.58	13.96	19.28
1437	—	22.33	7.13	4.72	4.91	5.72	14.06
1439	—	-7.56	.87	2.72	3.19	3.73	9.51
1441	—	-34.93	-4.77	1.07	1.88	2.50	3.97



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge=	1425	18.18	3.84	1.46	1.62	1.67	1.77
	1427	16.64	3.51	1.07	1.00	1.23	1.48
	1429	15.87	3.28	.98	.74	.77	1.15
	1431	15.51	3.19	.90	.68	.58	.85
	1433	15.26	3.14	.87	.63	.53	.54
	1435	15.09	3.10	.85	.61	.49	.41
	1437	14.99	3.07	.84	.59	.47	.37
	1439	14.93	3.05	.83	.58	.46	.34
	1441	14.92	3.05	.82	.58	.45	.31

