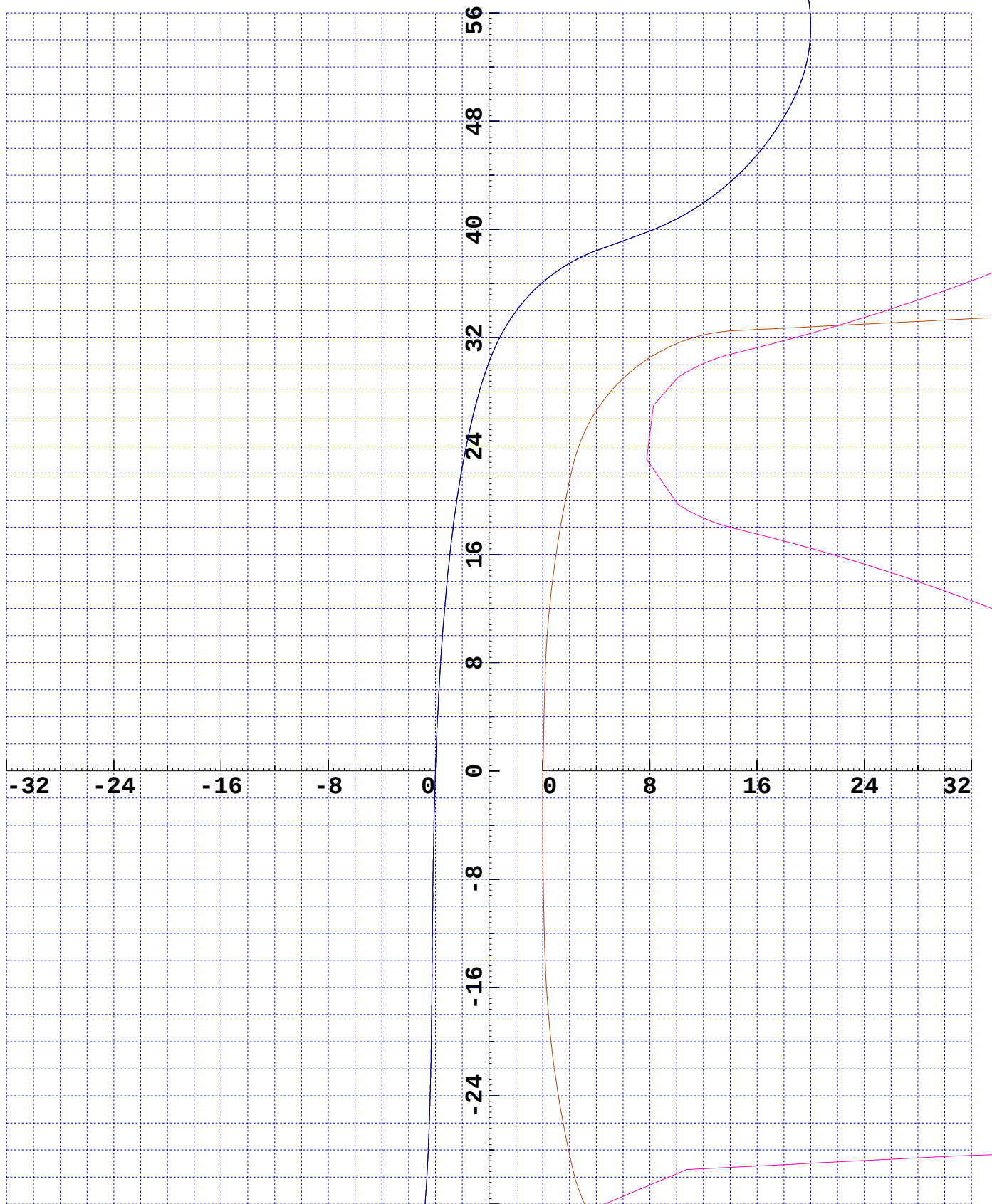
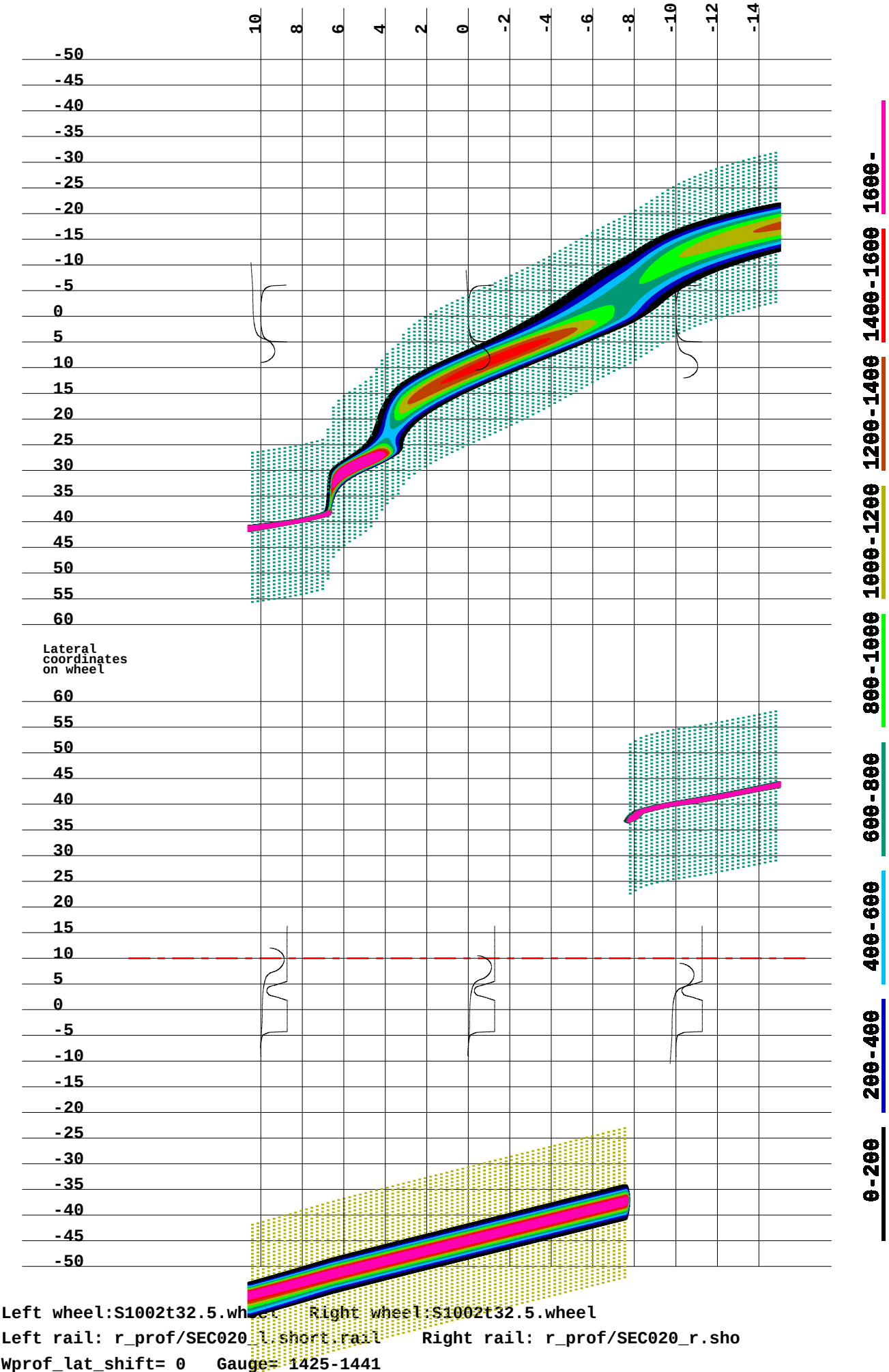


- Right wheel
- Left wheel
- Right rail
- Left rail

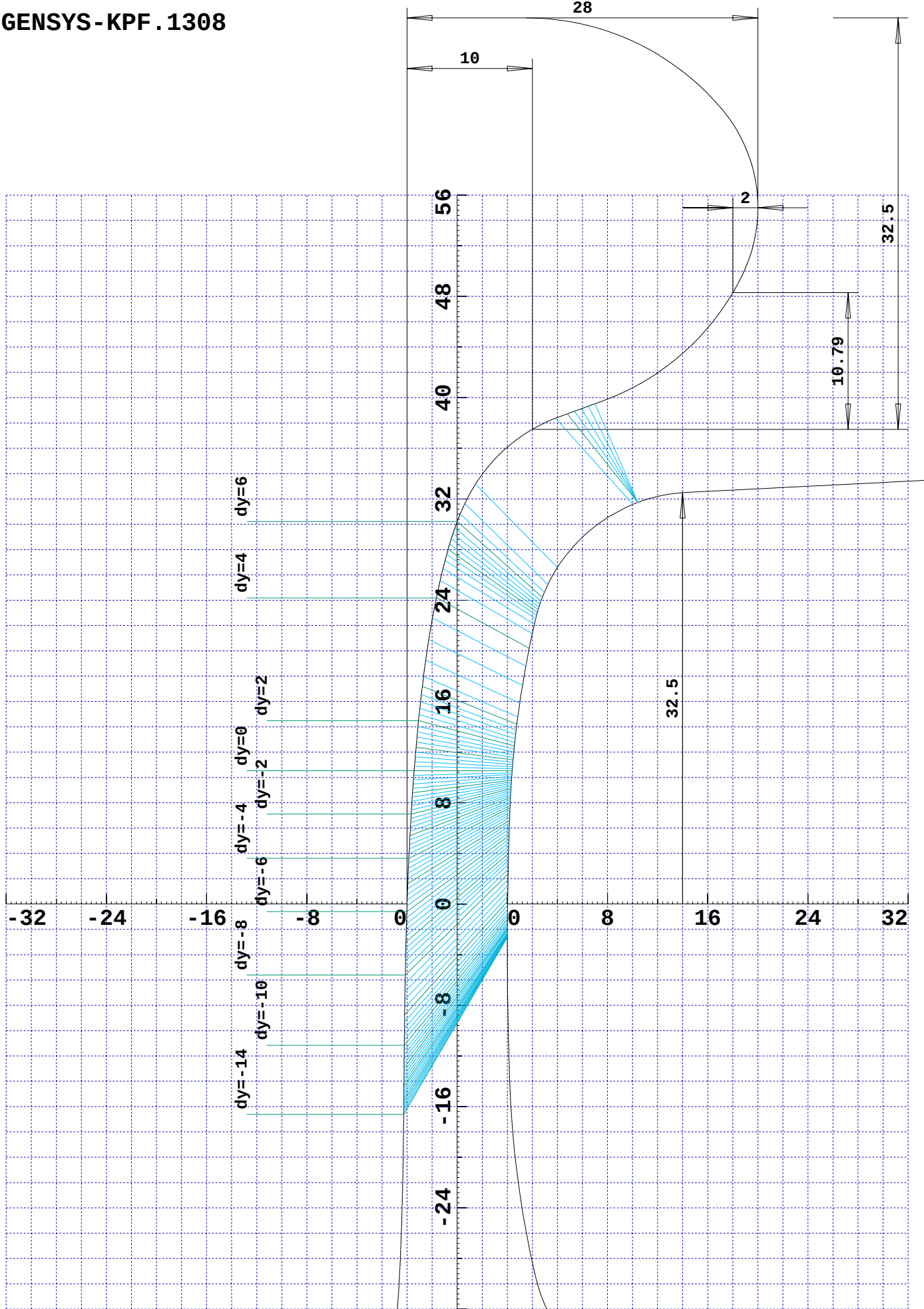


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020

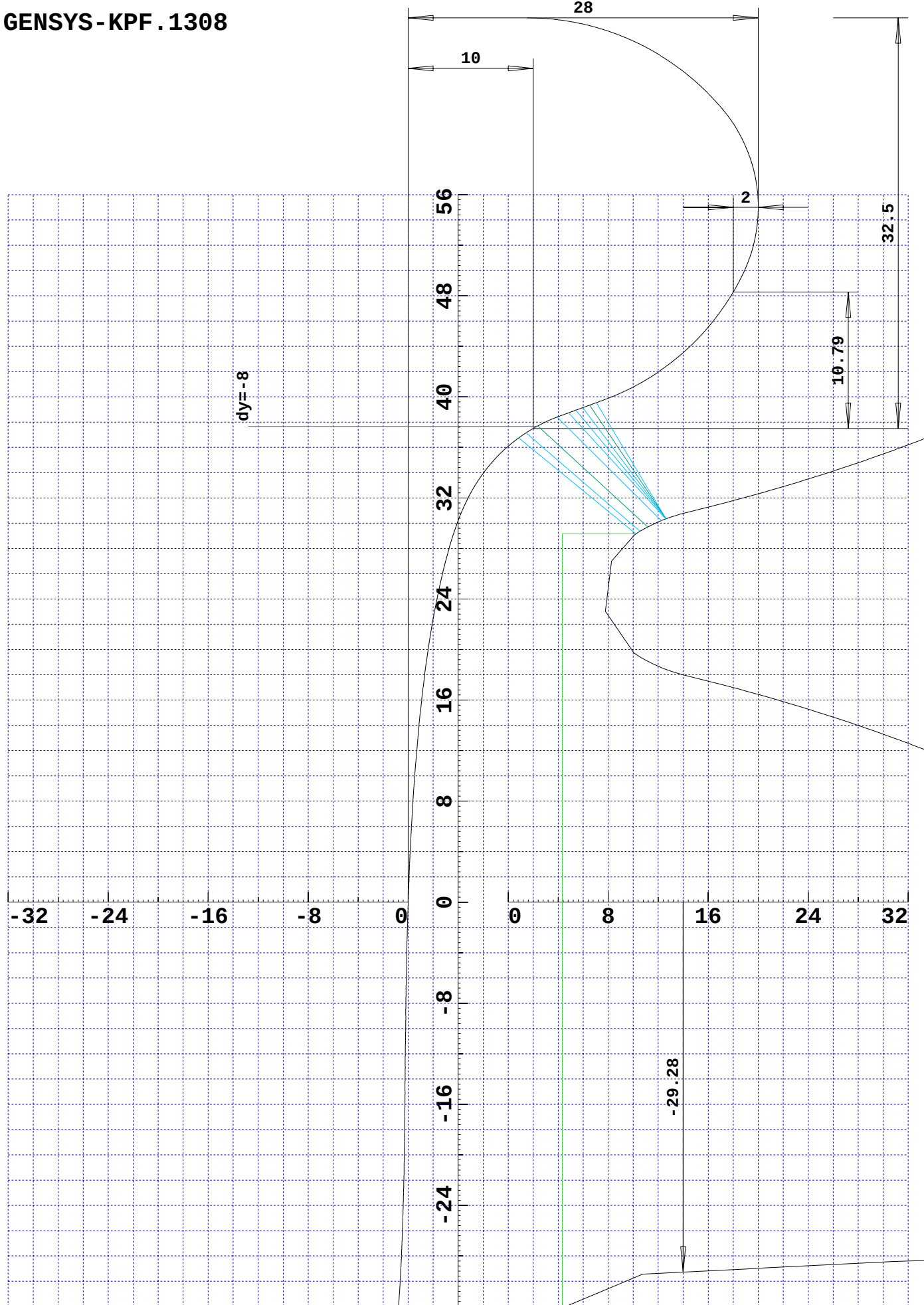


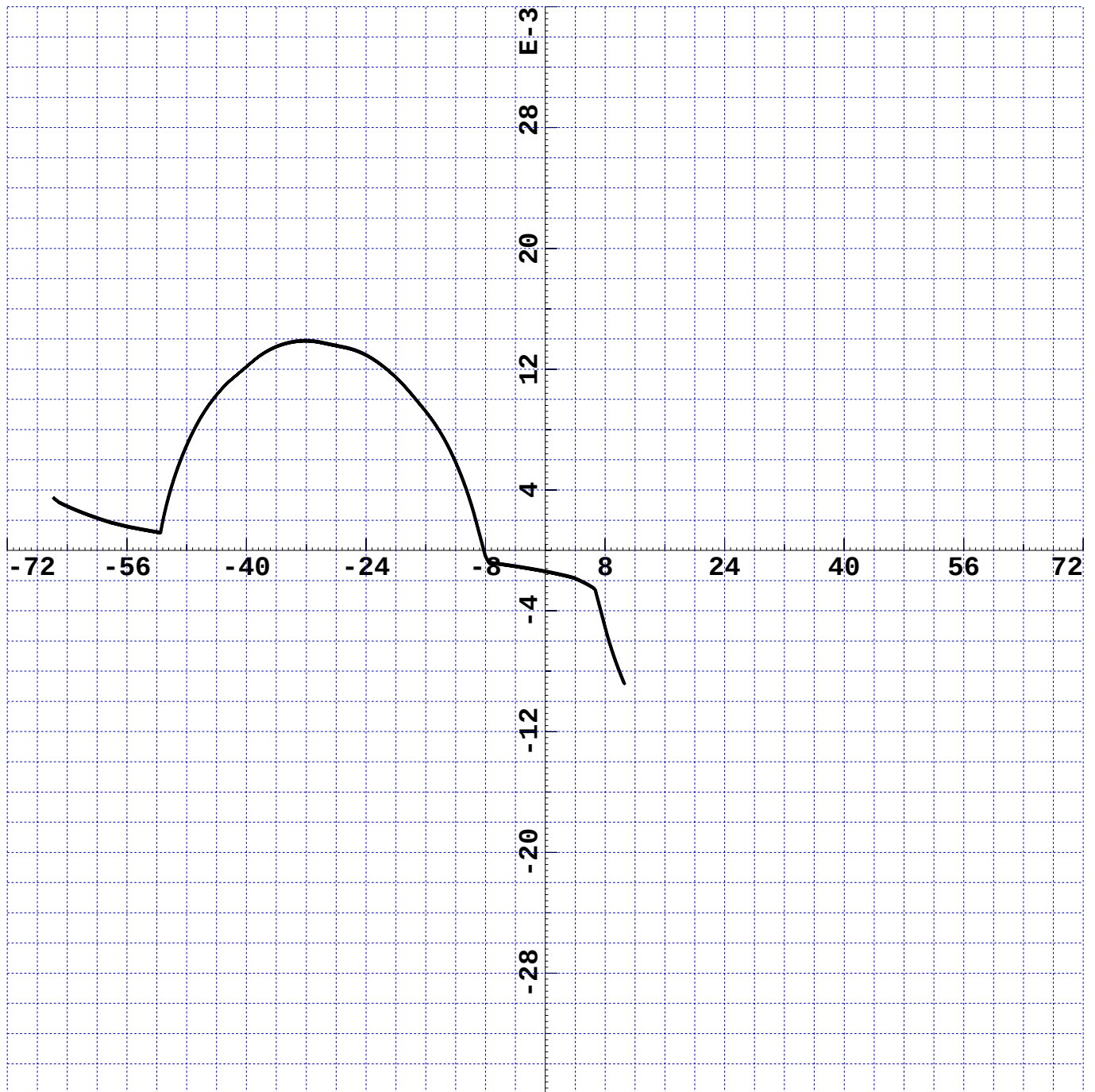
Contact Pressure



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel CONNr
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

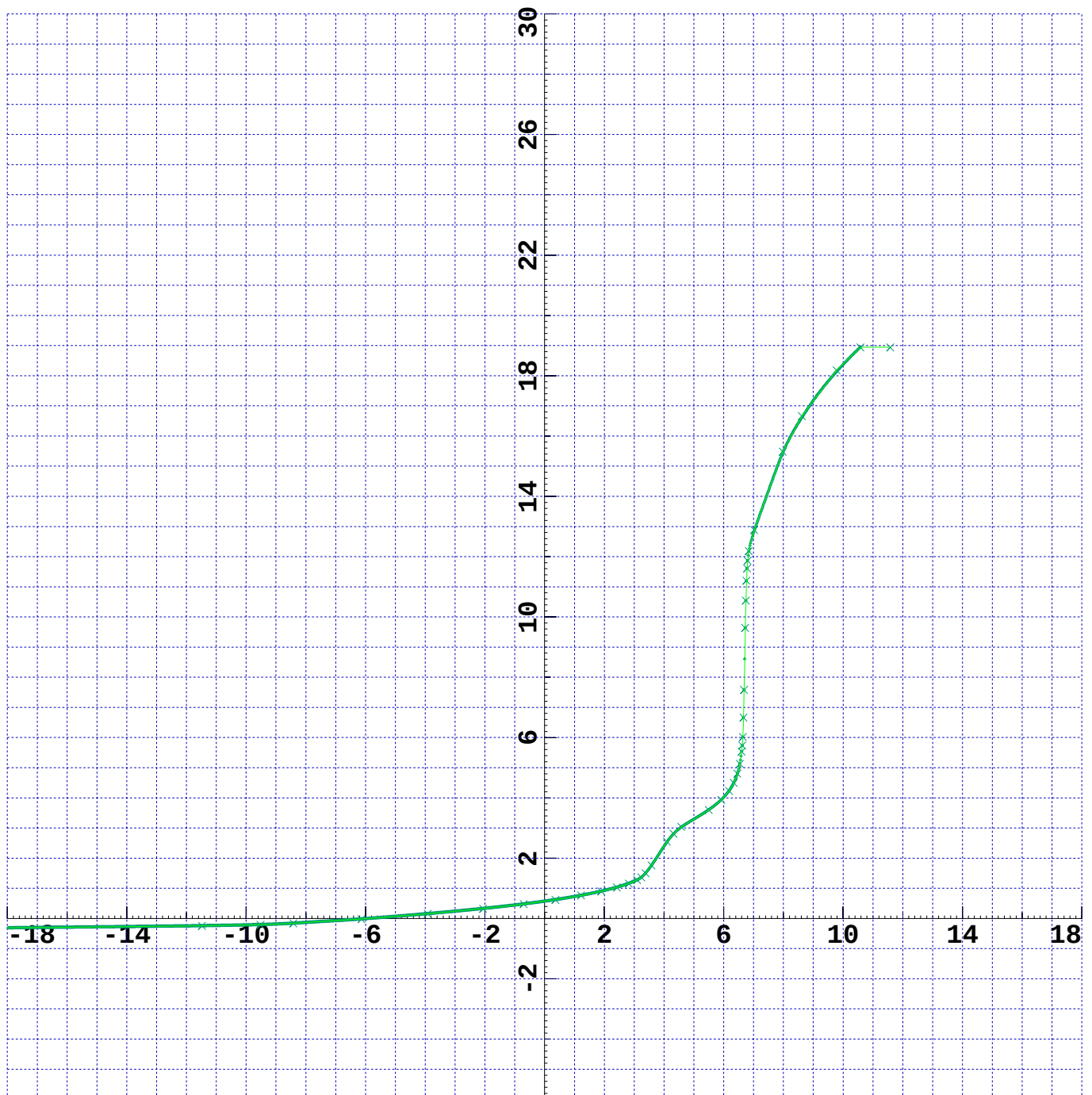
Ident: kpfr_020





Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flaxl**
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

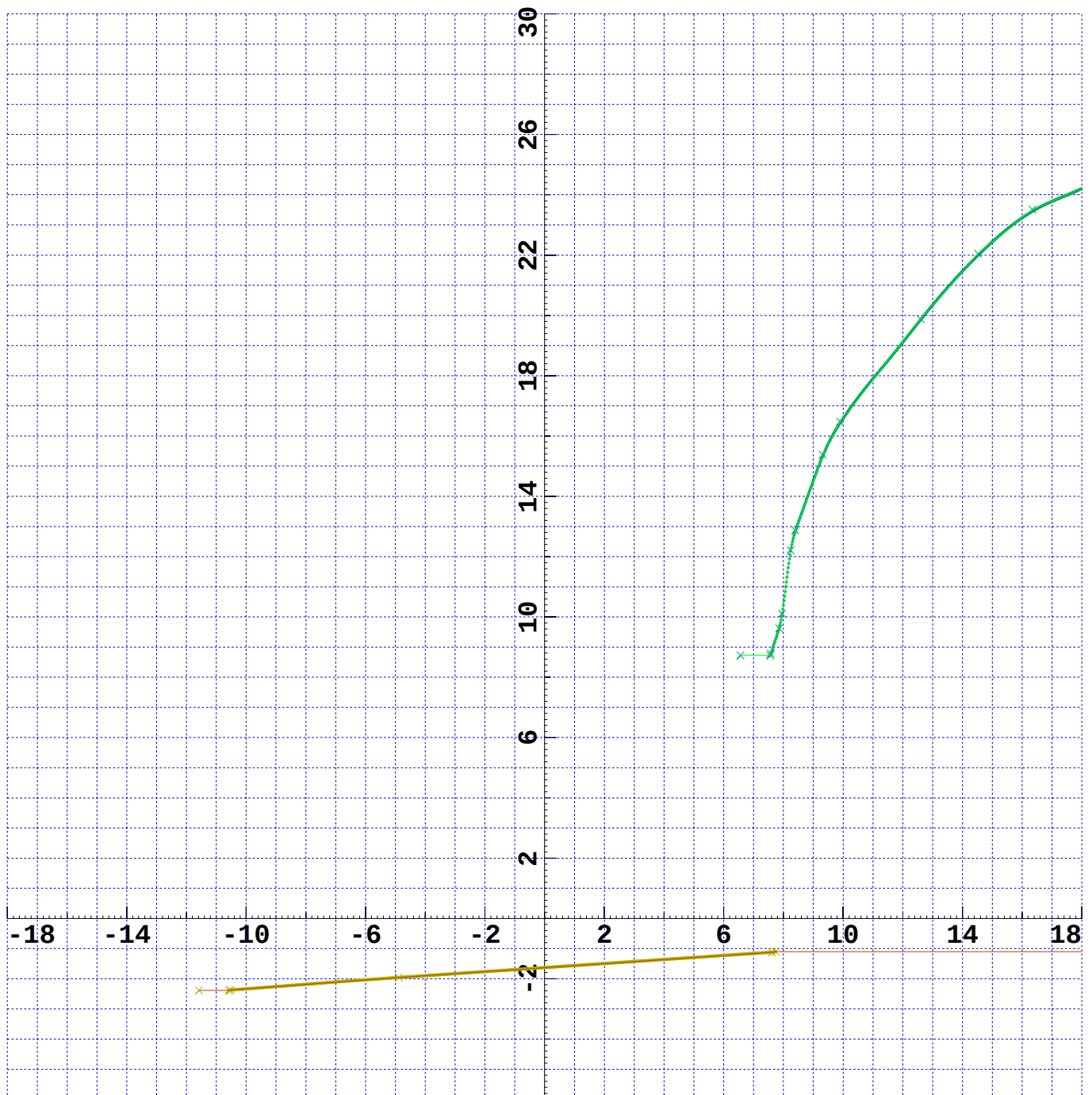
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

DRFNr

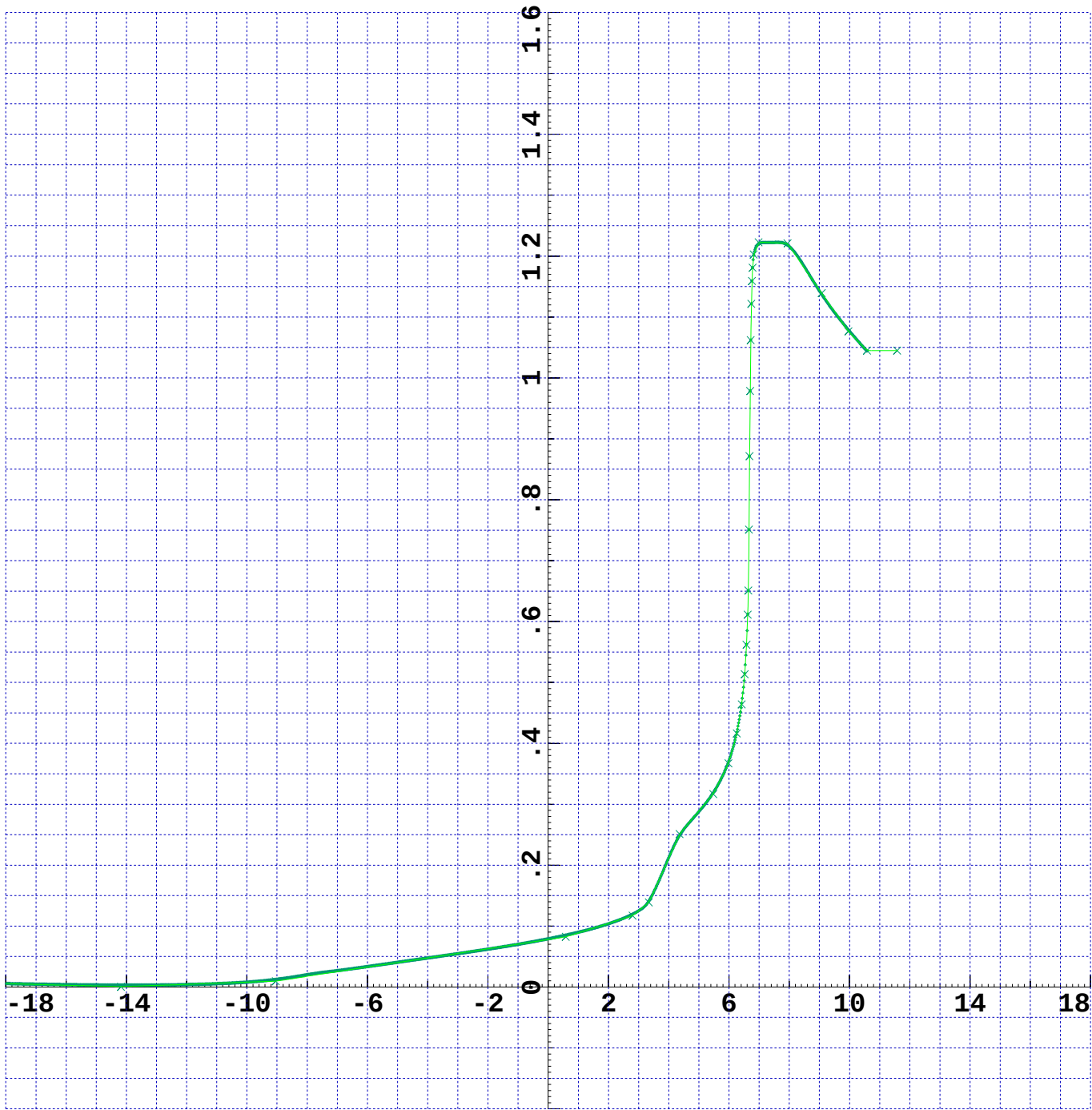
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

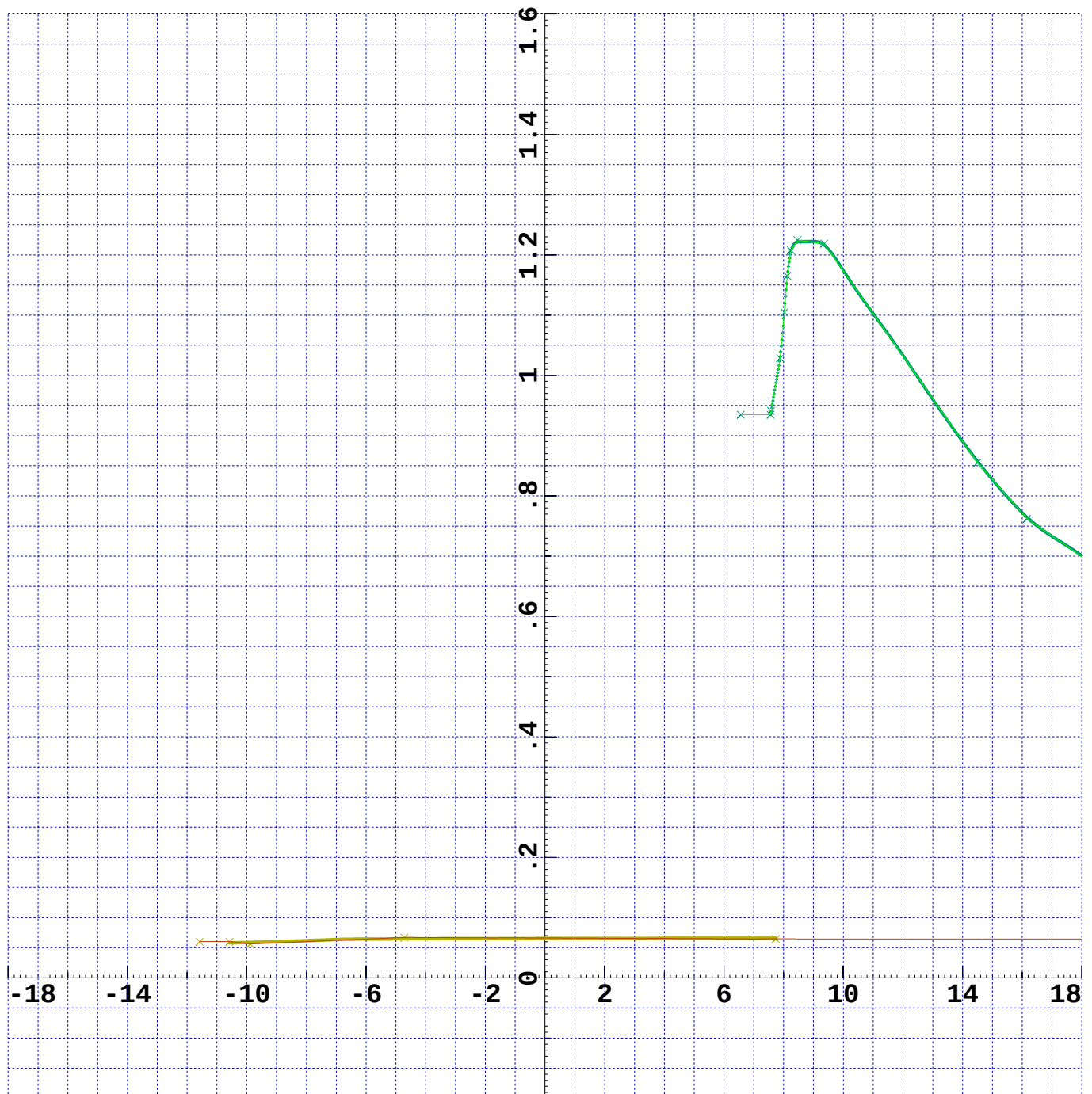
DRFN1

Ident: kpfr_020



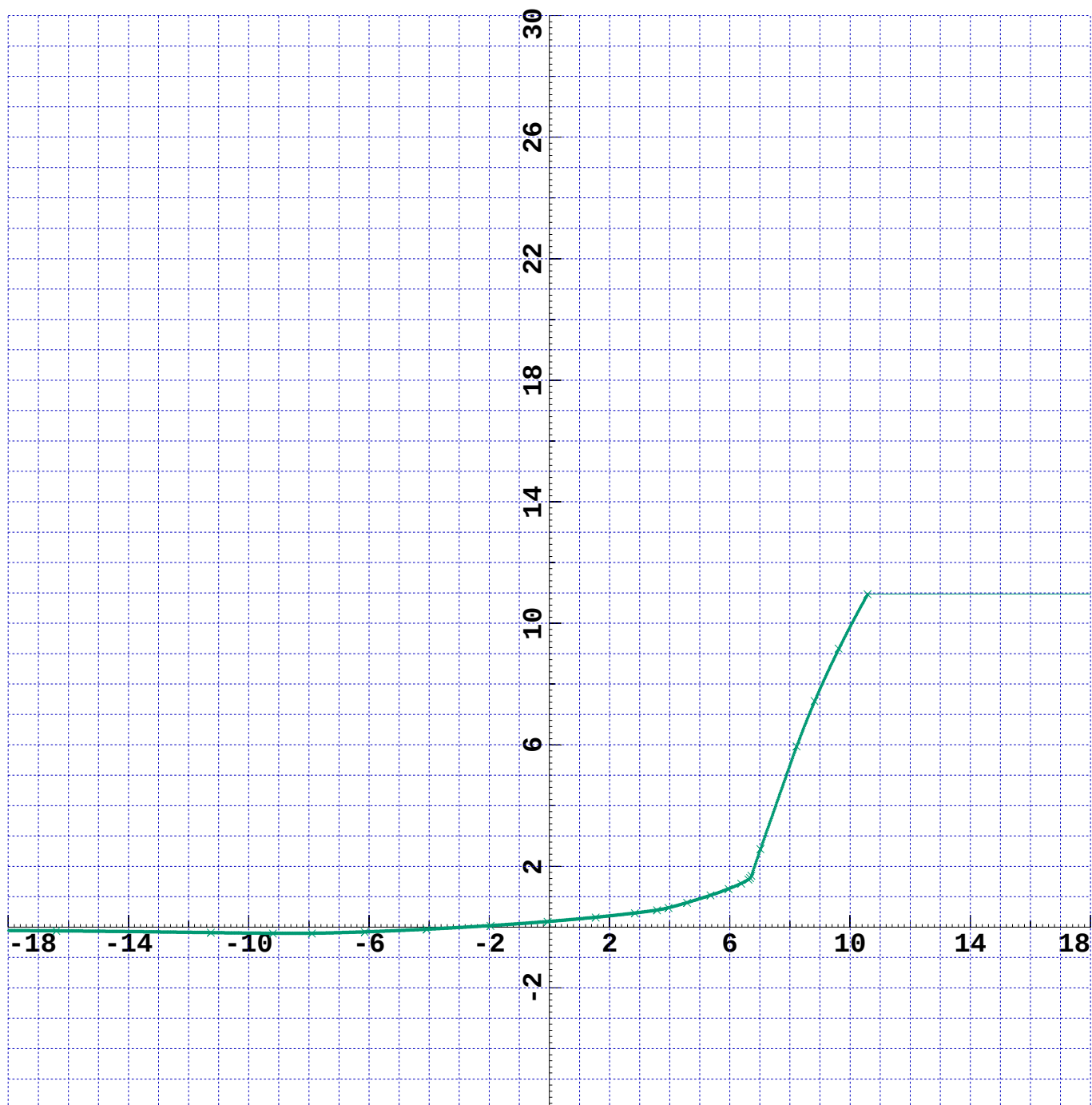
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel GAMFNr
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFN1
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

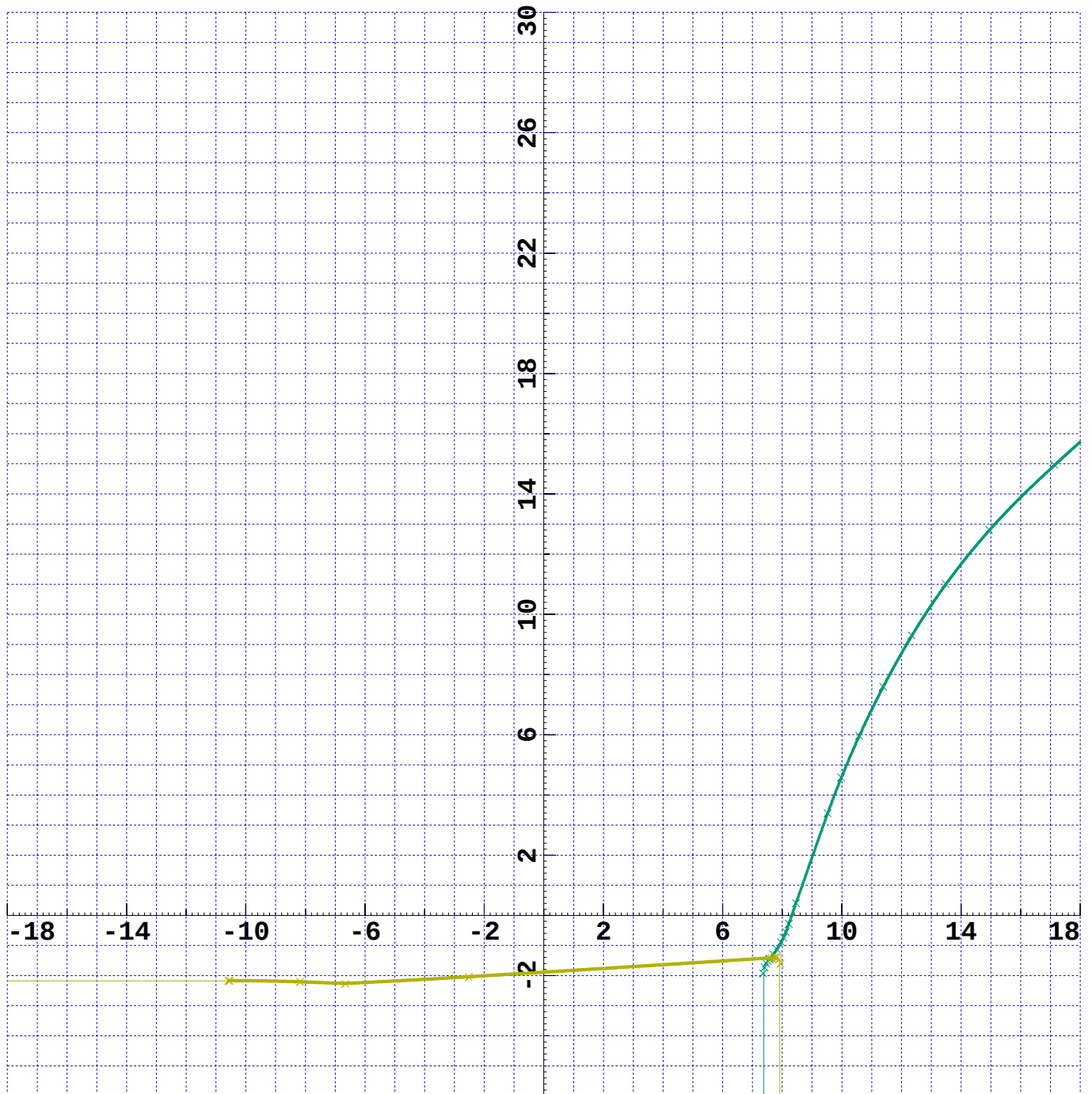
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFNr

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFN1

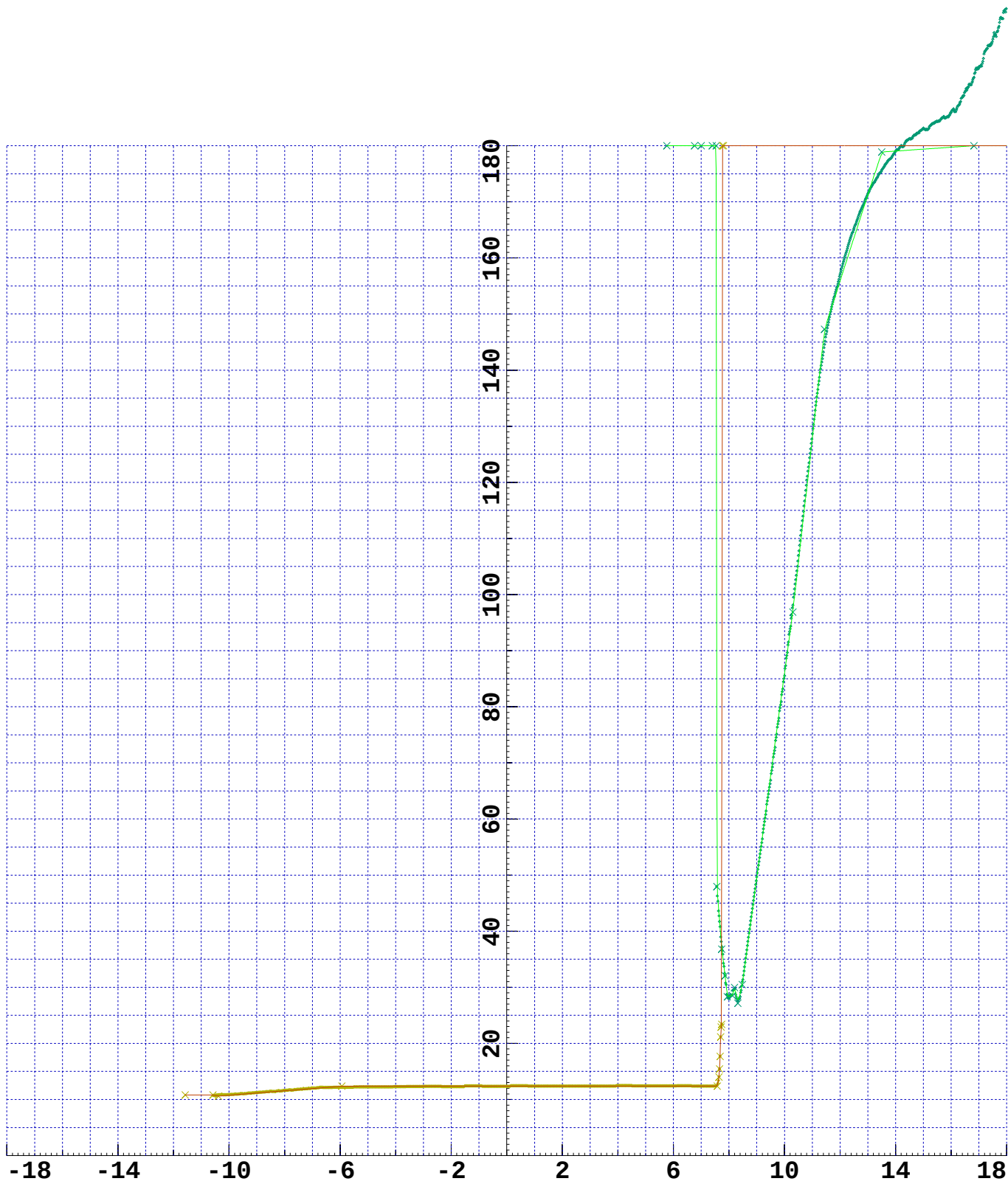
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

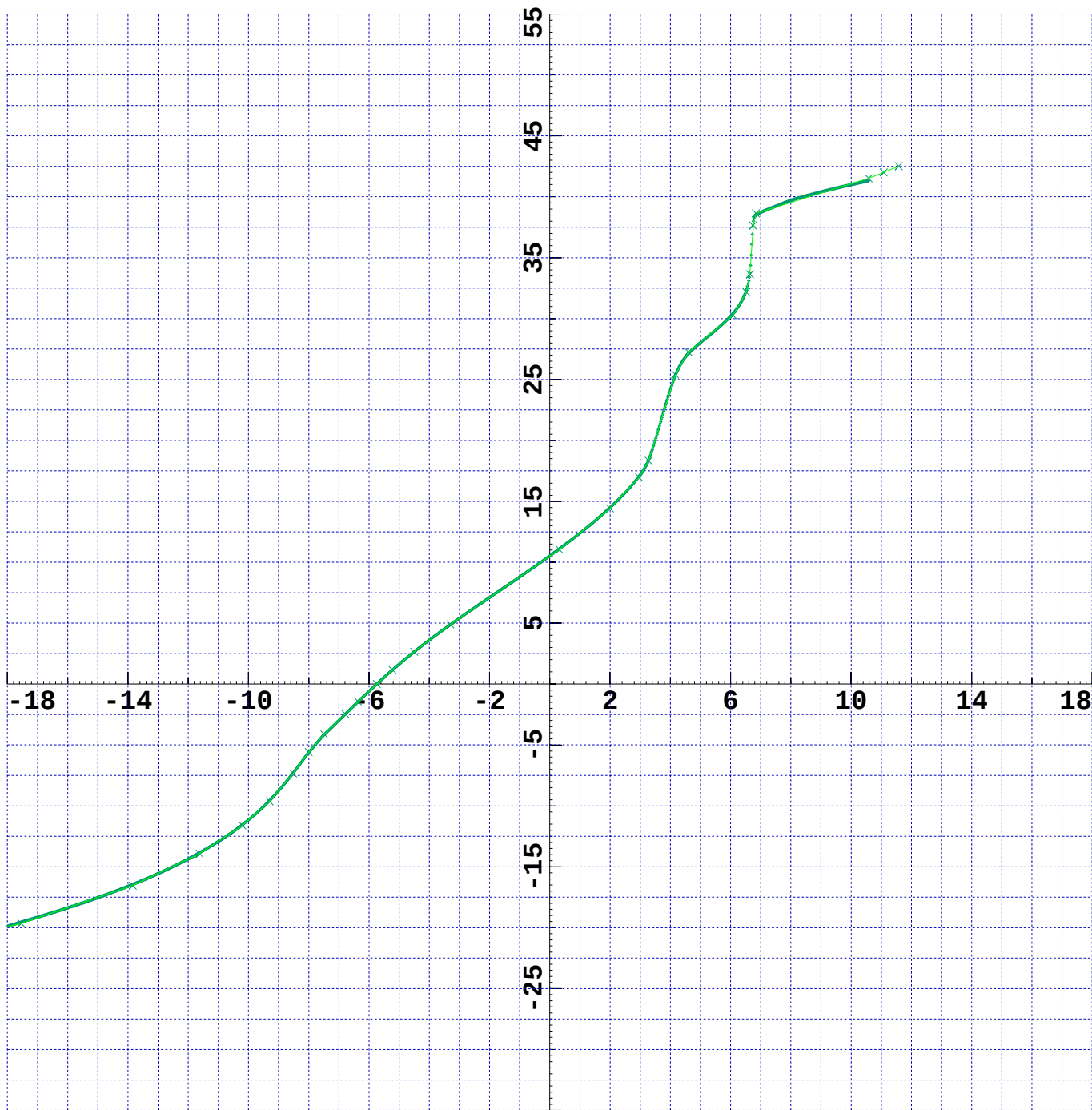
ROFNR

Ident: kpfr_020



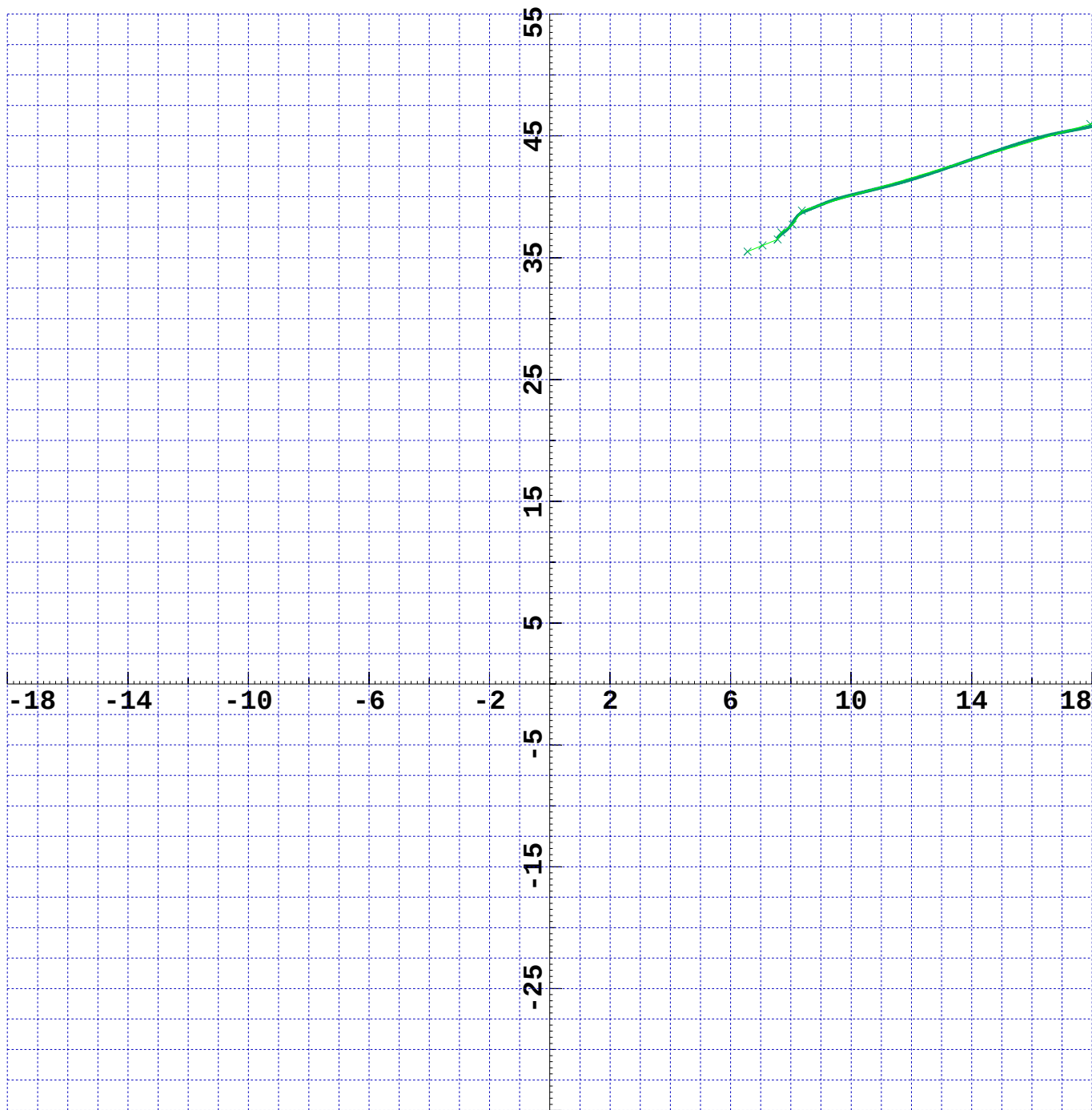
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ROFN1
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020



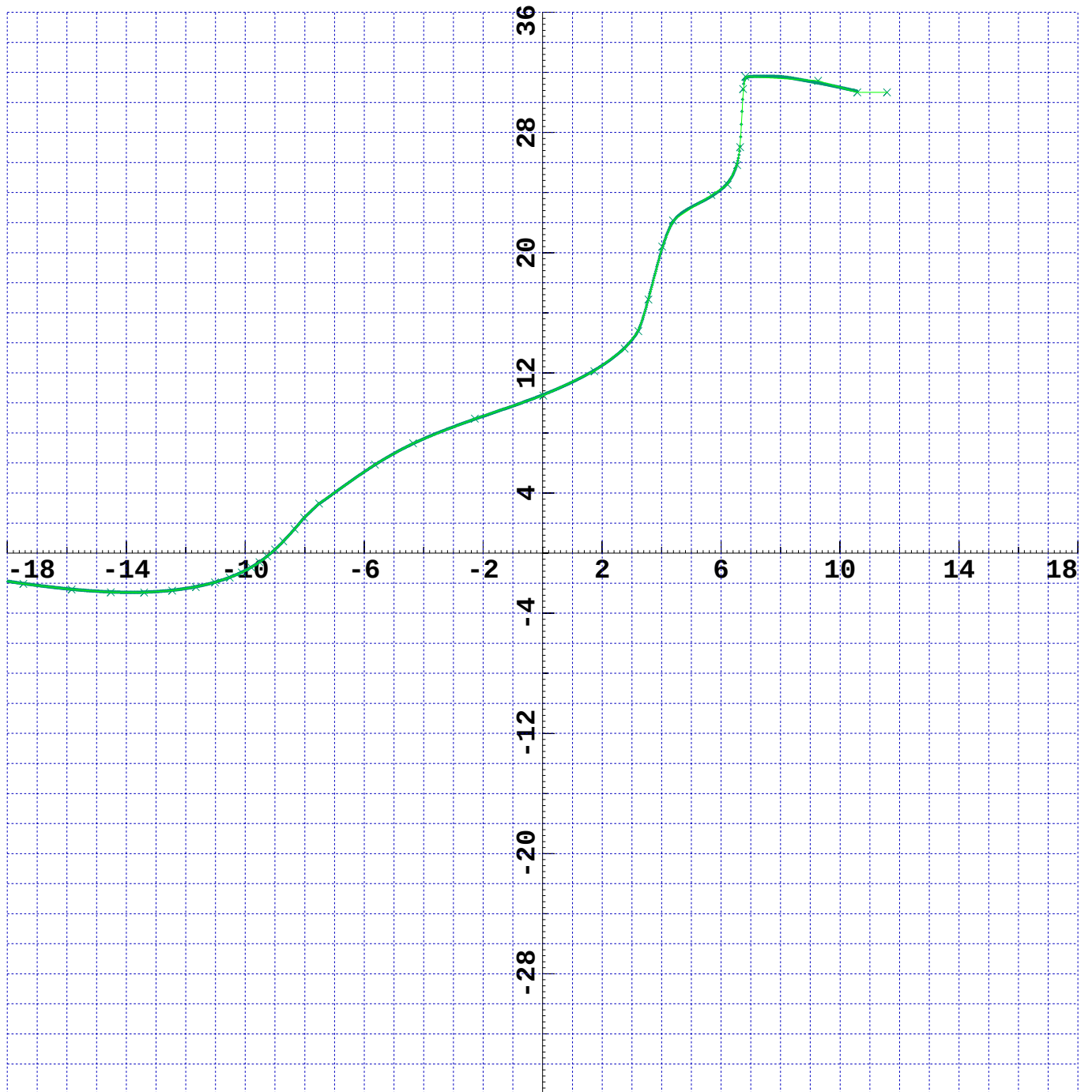
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel POSWr
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSW1
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

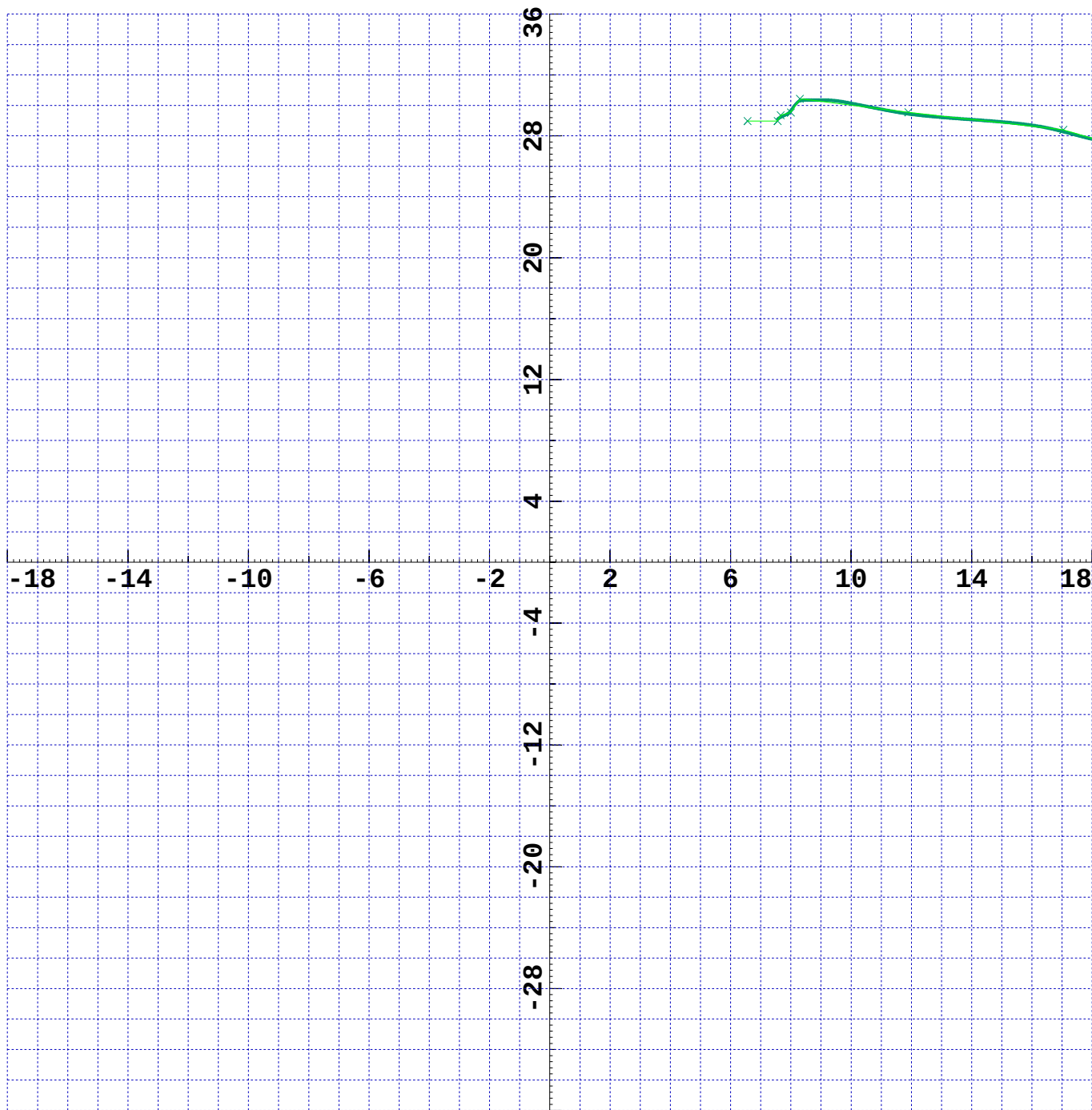
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

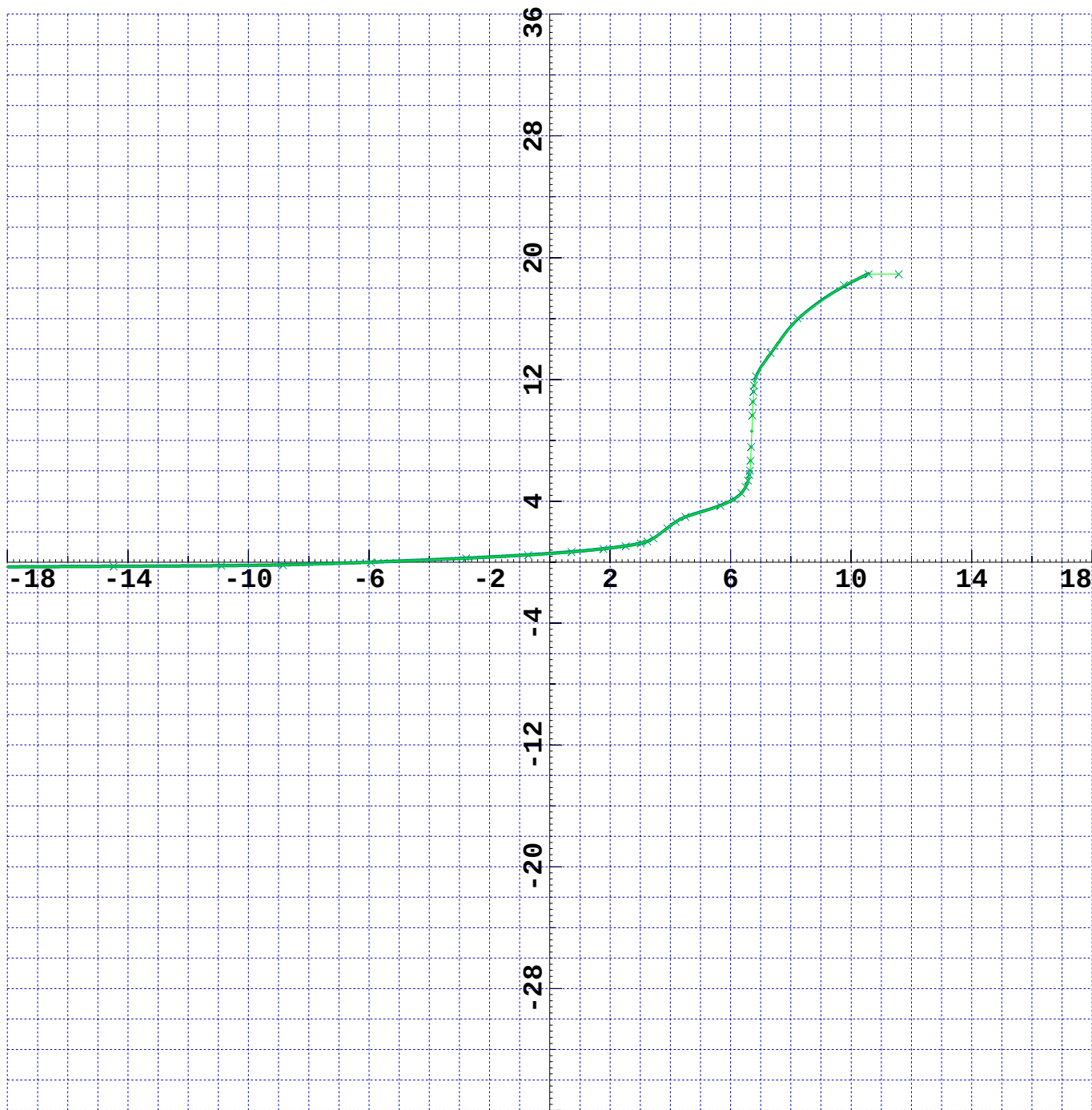
POSRR

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSR1
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

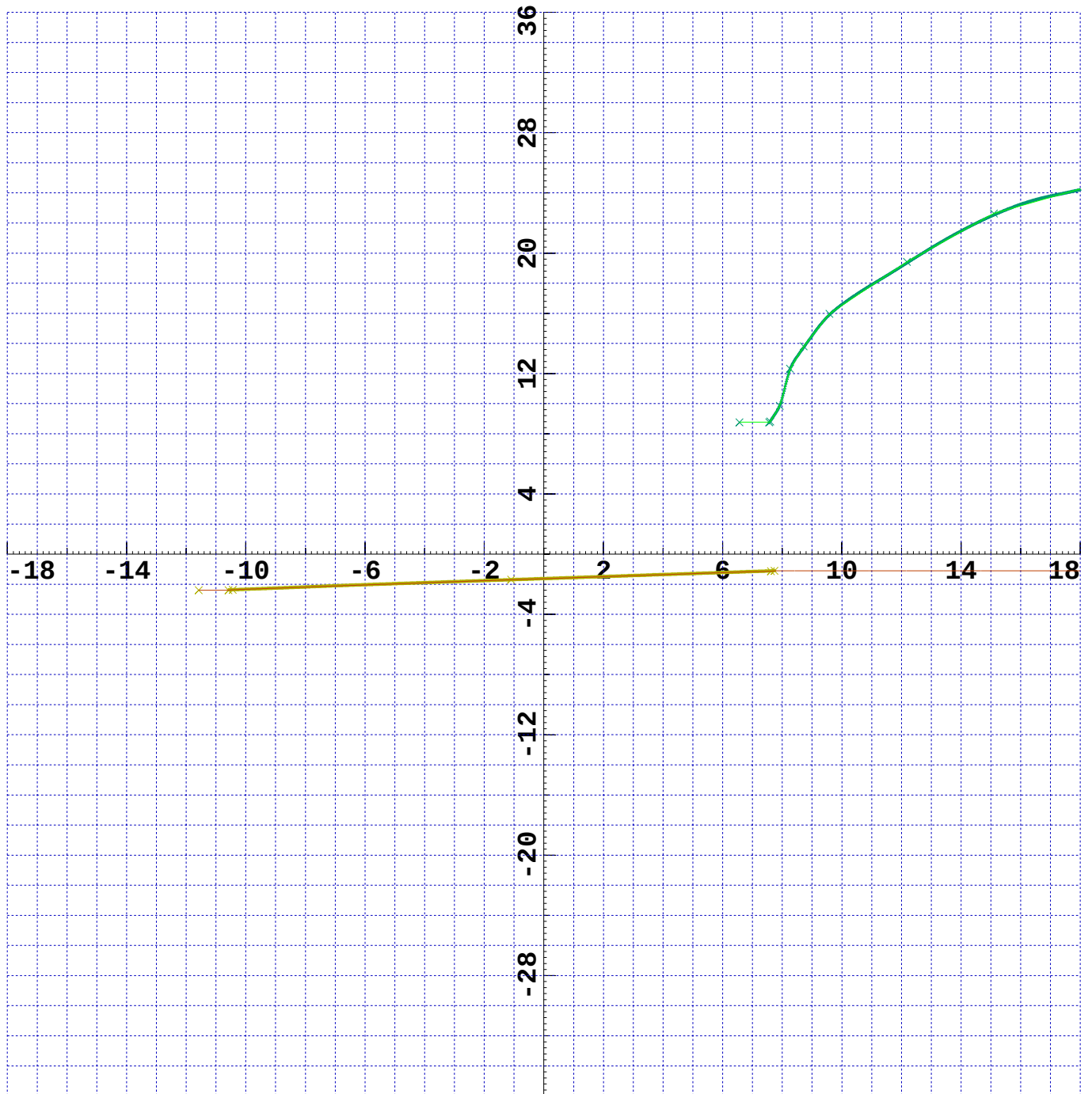
Ident: kpfr_020



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

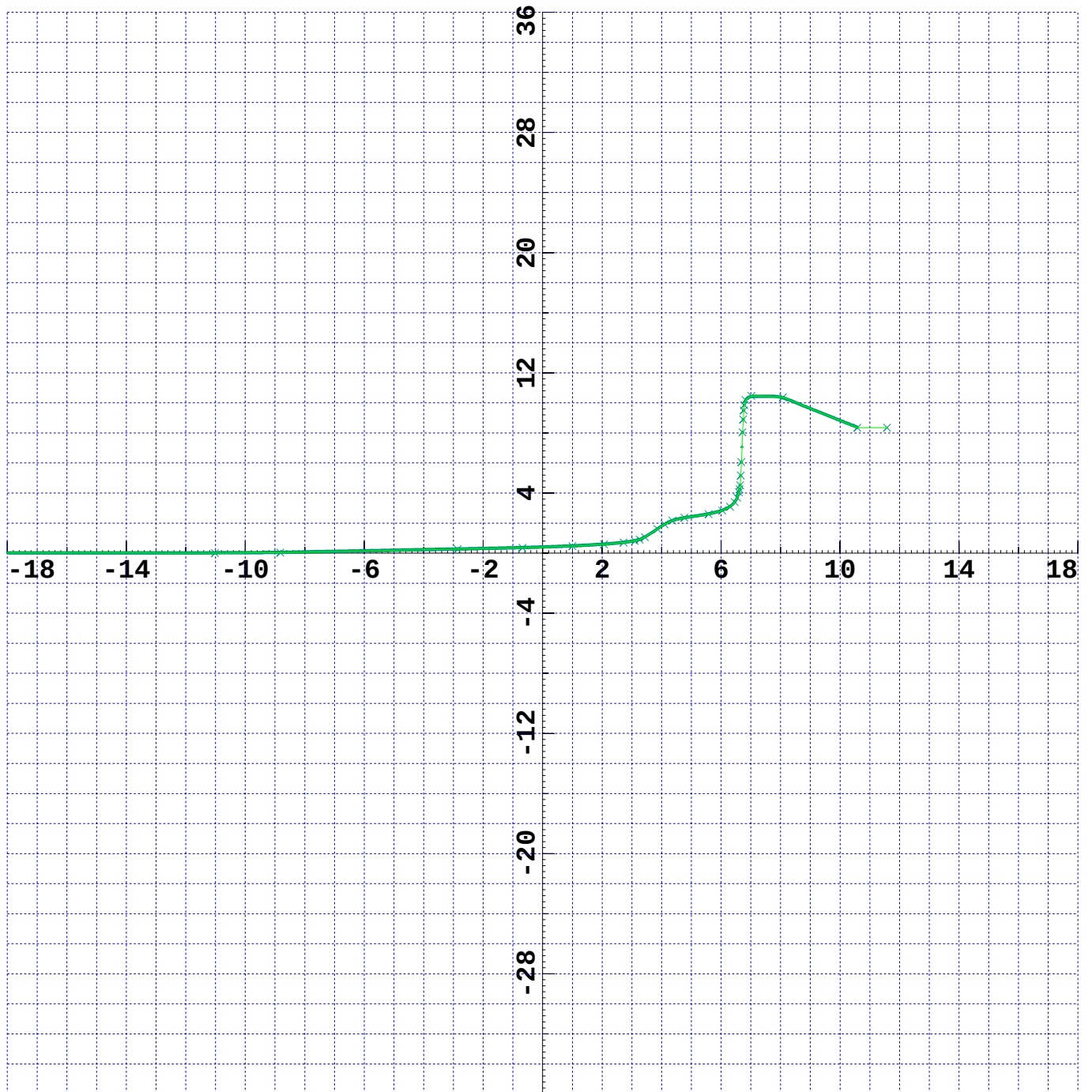
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZW1

Ident: kpfr_020

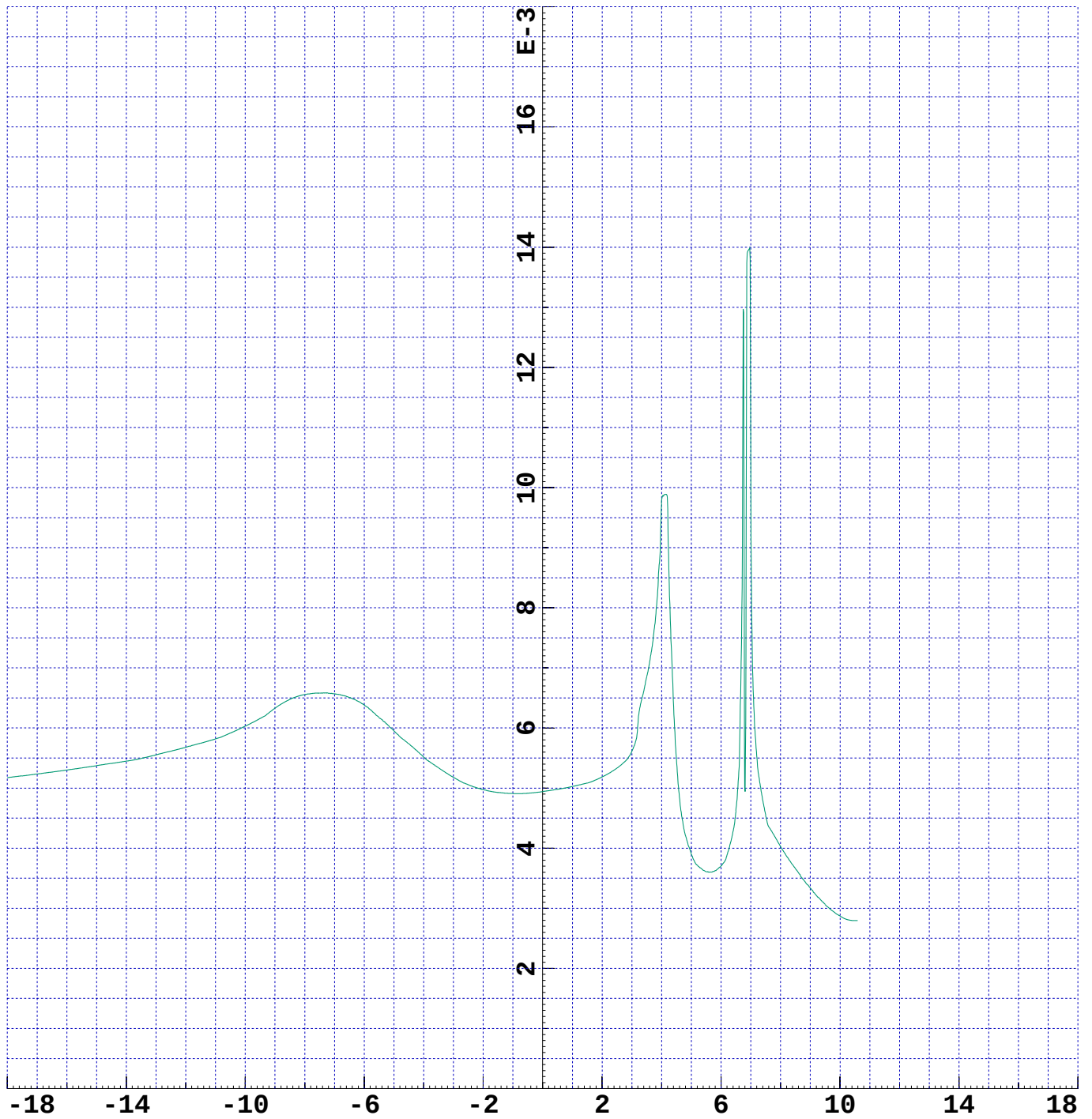


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

Ident: kpfr_020

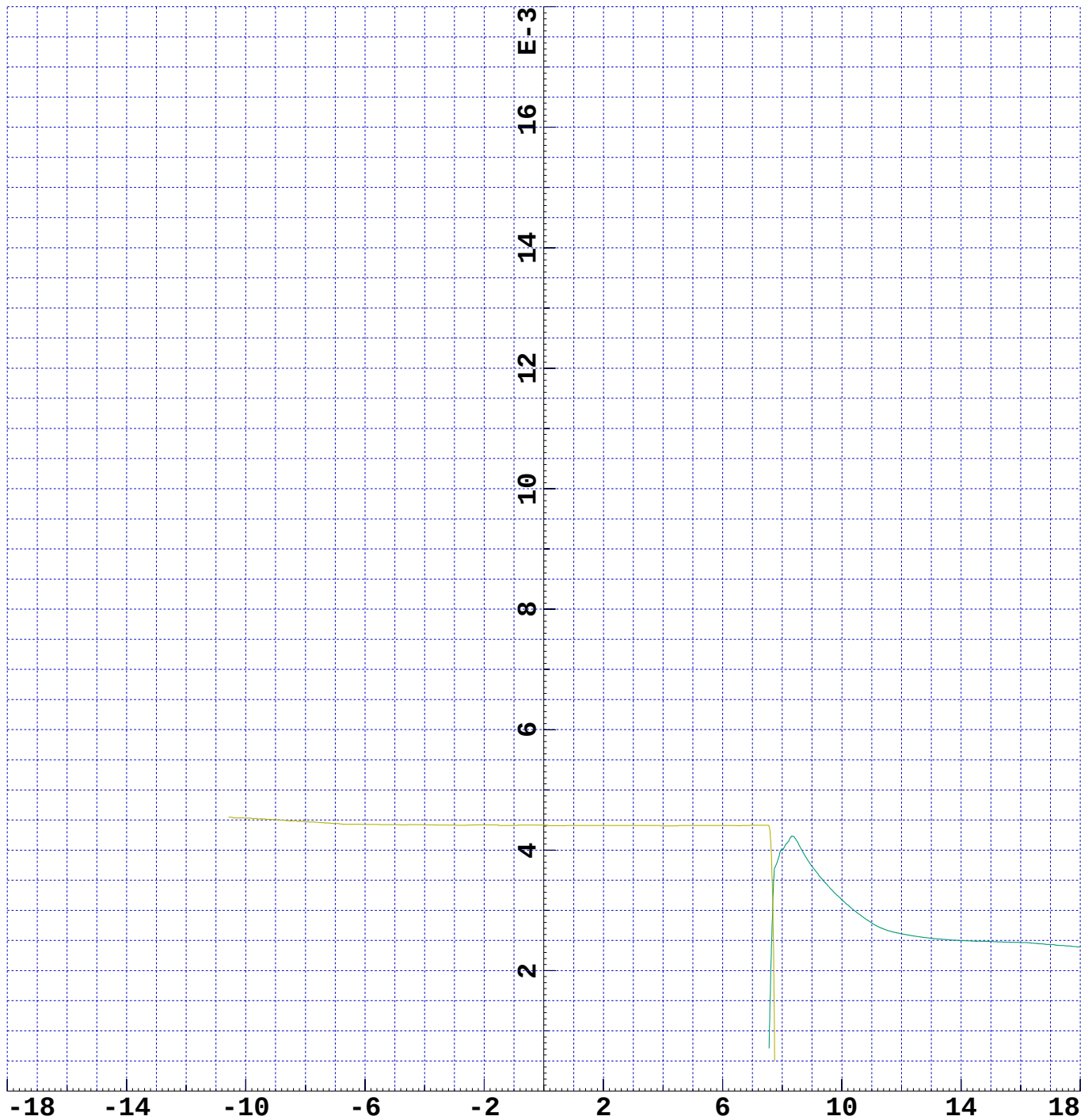




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

C_r

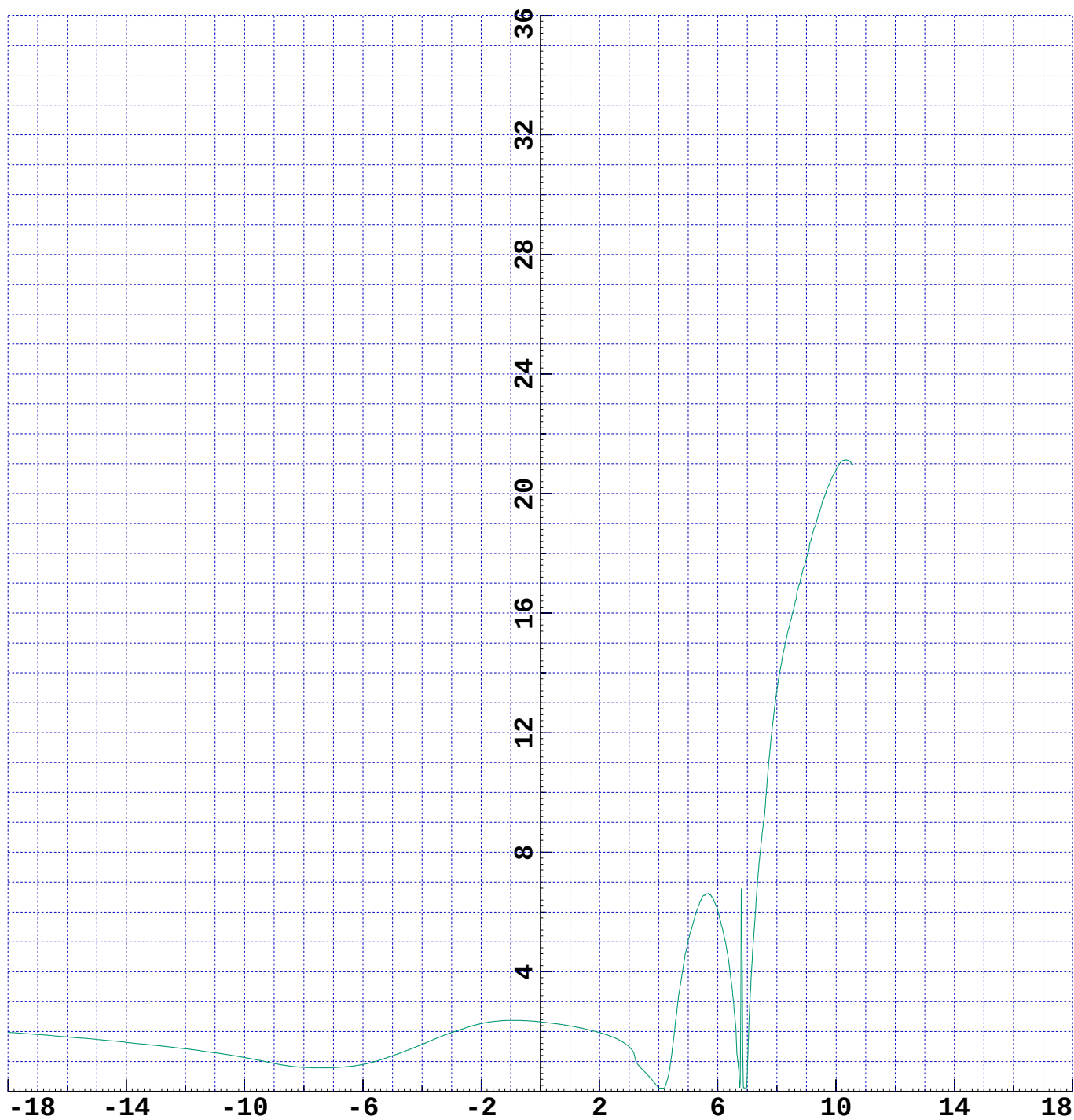
Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

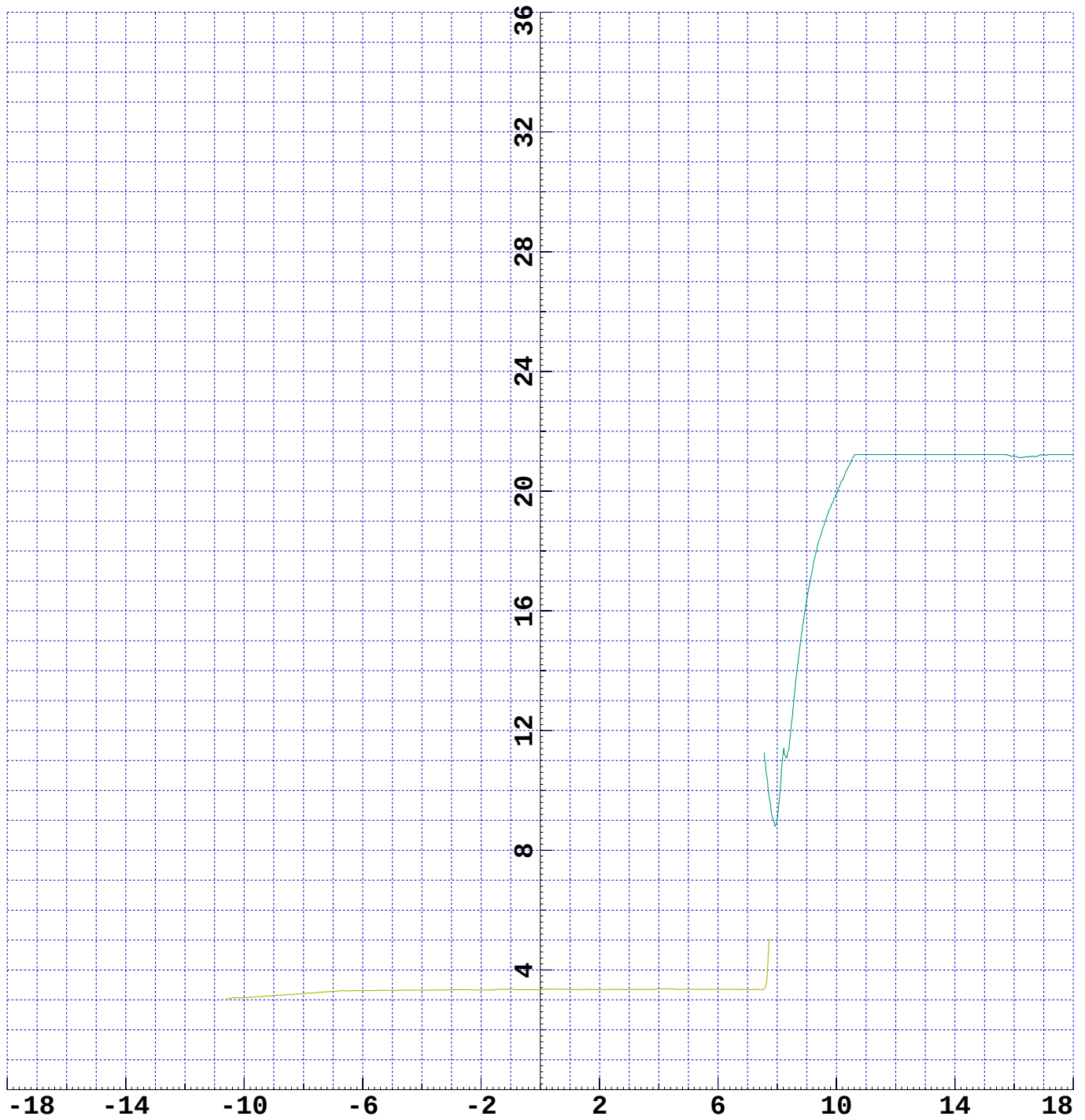
C_1

Ident: kpfr_020



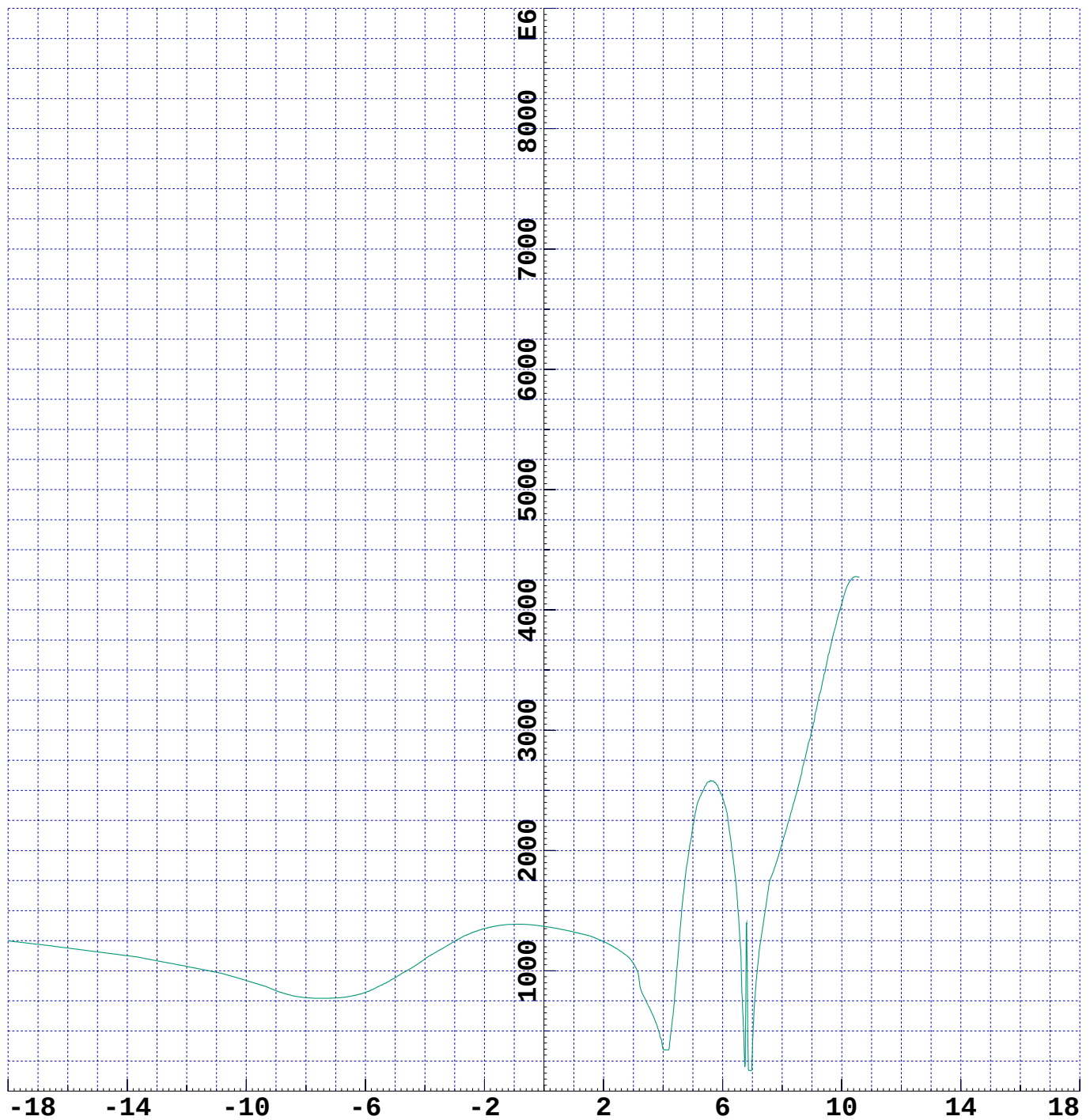
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
 Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020

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

Radial Steering Index

× = $\Delta r_E = 5.69$ left curve

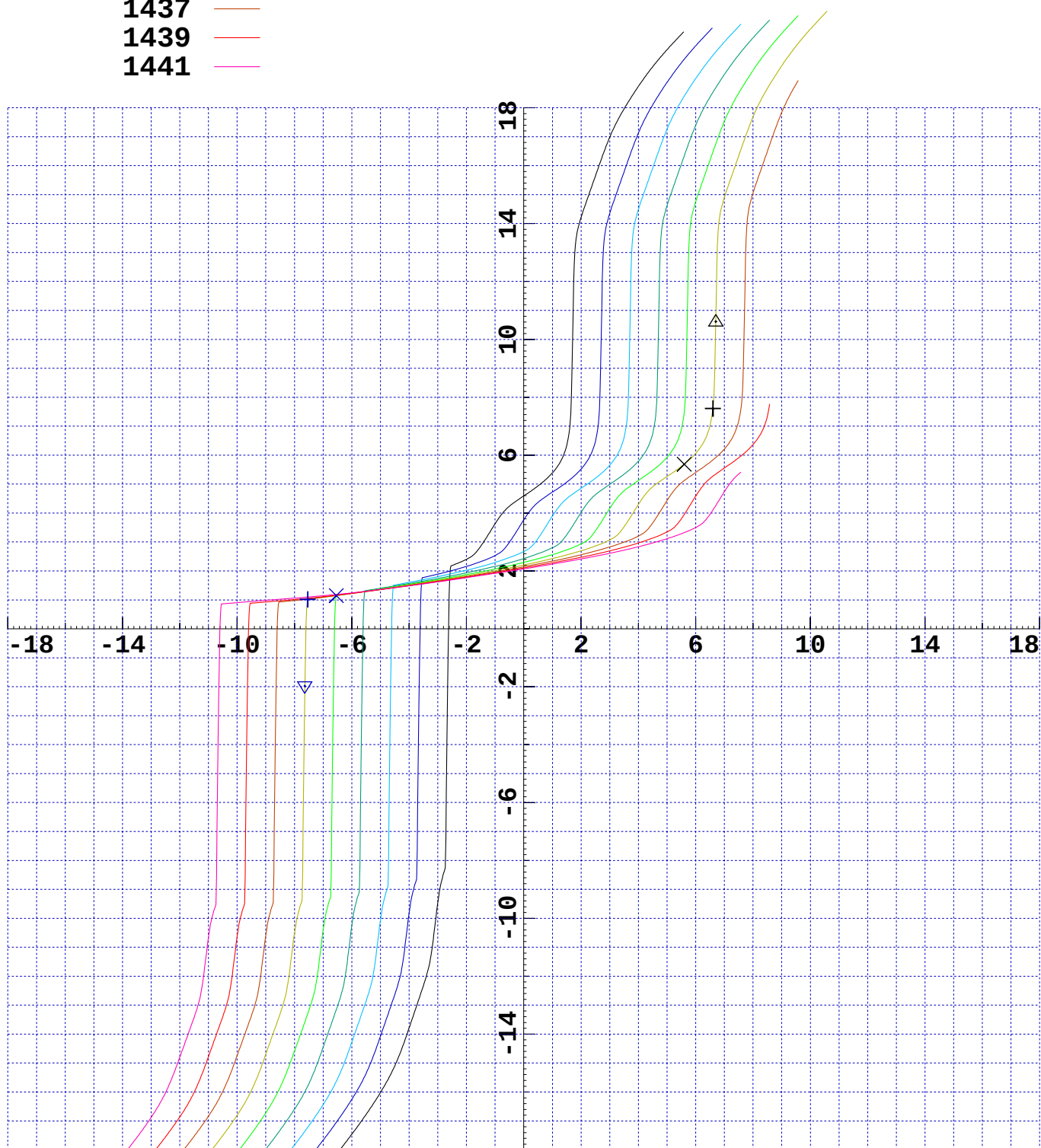
× = $\Delta r_E = 1.15$ right curve

+ = $A0r = 6.60$ 7.61

+ = $A0l = -7.54$ 1.02

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/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

rr-rl

Ident: kpfr_020

GENSYS-KPF.1308

Delta_Y=

.1

.5

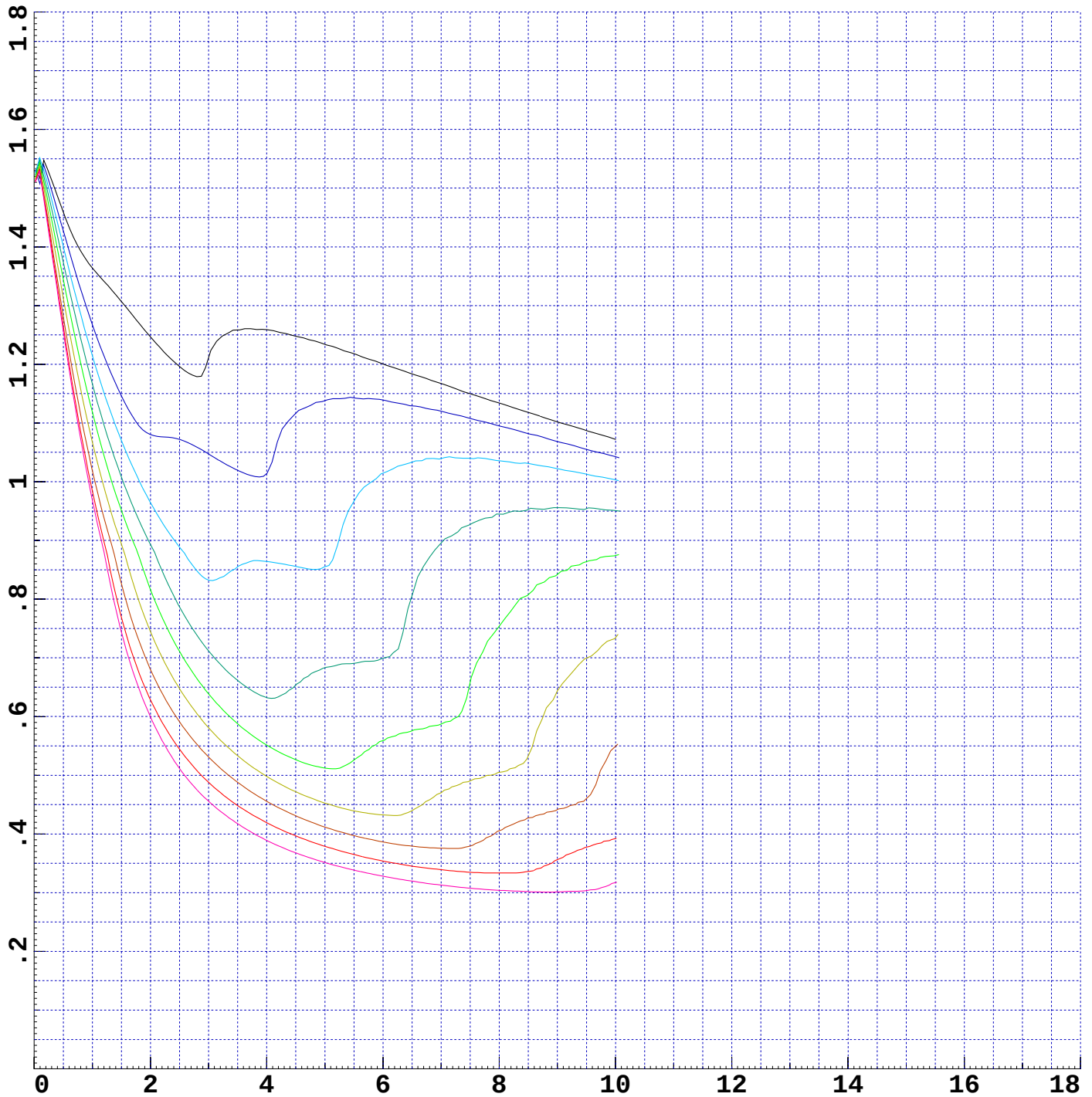
2

3

4

6

Gauge=	1425	—	1.518	1.459	1.246	1.211	1.259	1.200
	1427	—	1.510	1.427	1.080	1.047	1.014	1.139
	1429	—	1.550	1.400	.964	.832	.864	1.015
	1431	—	1.545	1.374	.893	.712	.632	.699
	1433	—	1.539	1.344	.816	.639	.551	.559
	1435	—	1.533	1.313	.744	.581	.498	.432
	1437	—	1.527	1.281	.680	.531	.456	.386
	1439	—	1.524	1.264	.628	.488	.419	.354
	1441	—	1.522	1.255	.599	.455	.389	.328



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

Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

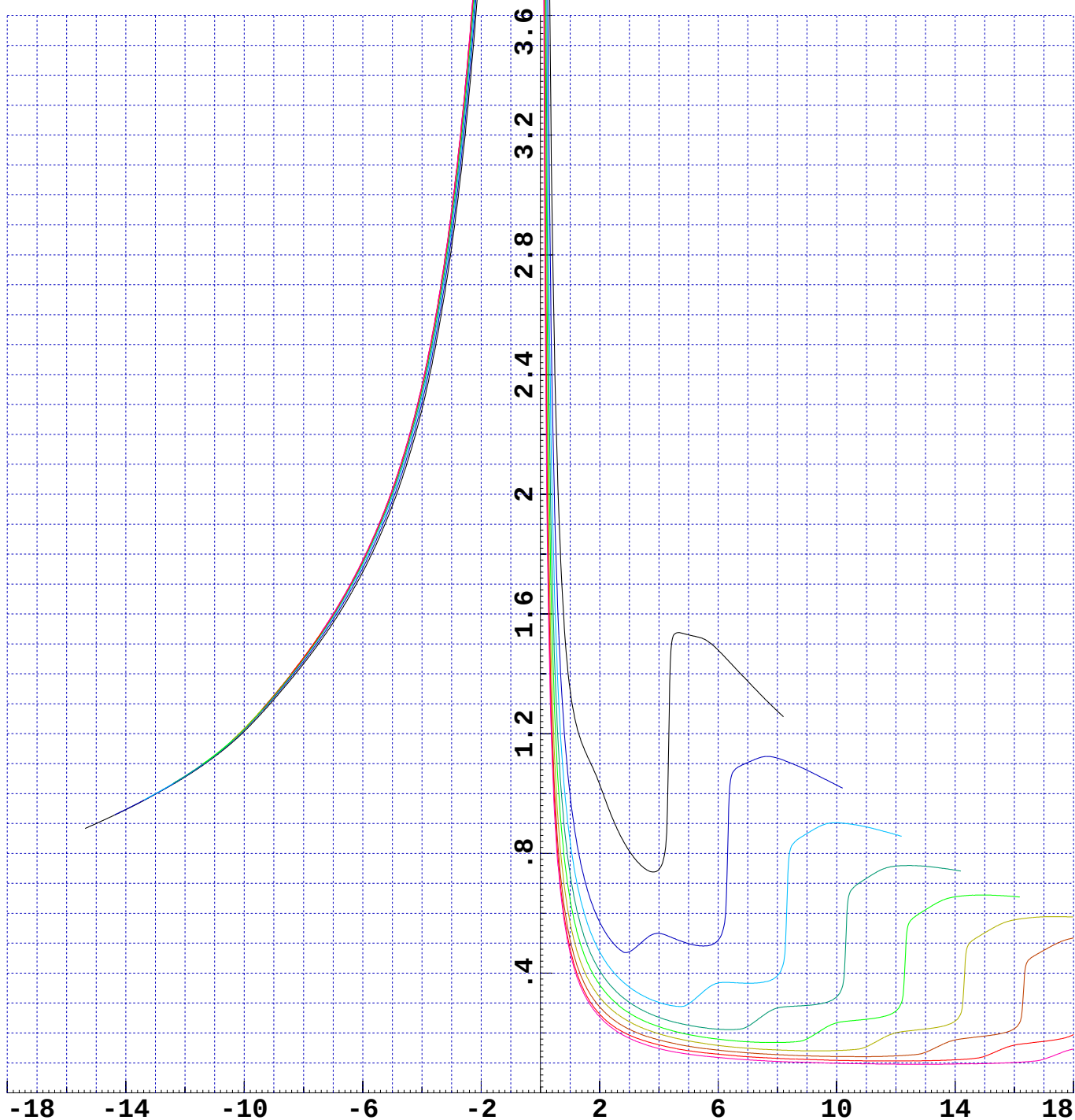
UIC519

Ident: kpfr_020

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	10.992	2.340	1.030	.808	.747	1.479
	1427	8.877	1.861	.570	.472	.533	.510
	1429	7.646	1.587	.471	.353	.302	.367
	1431	6.678	1.386	.408	.302	.252	.213
	1433	5.833	1.217	.360	.267	.221	.179
	1435	5.141	1.075	.320	.237	.197	.159
	1437	4.643	.966	.287	.212	.177	.143
	1439	4.457	.920	.263	.193	.160	.129
	1441	4.344	.895	.253	.183	.148	.118



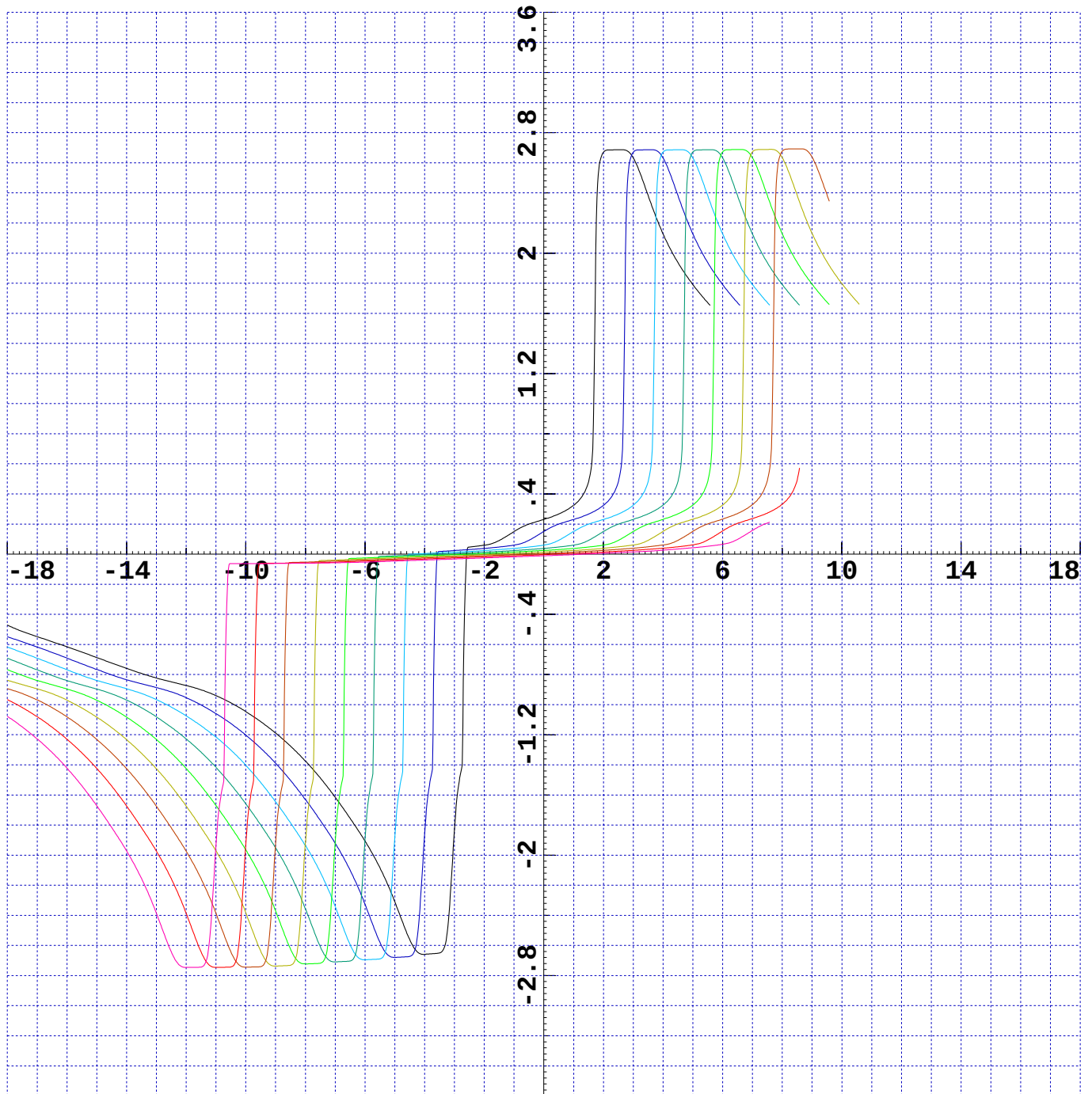
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

lambda

Ident: kpfr_020

GENSYS-KPF.1308

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

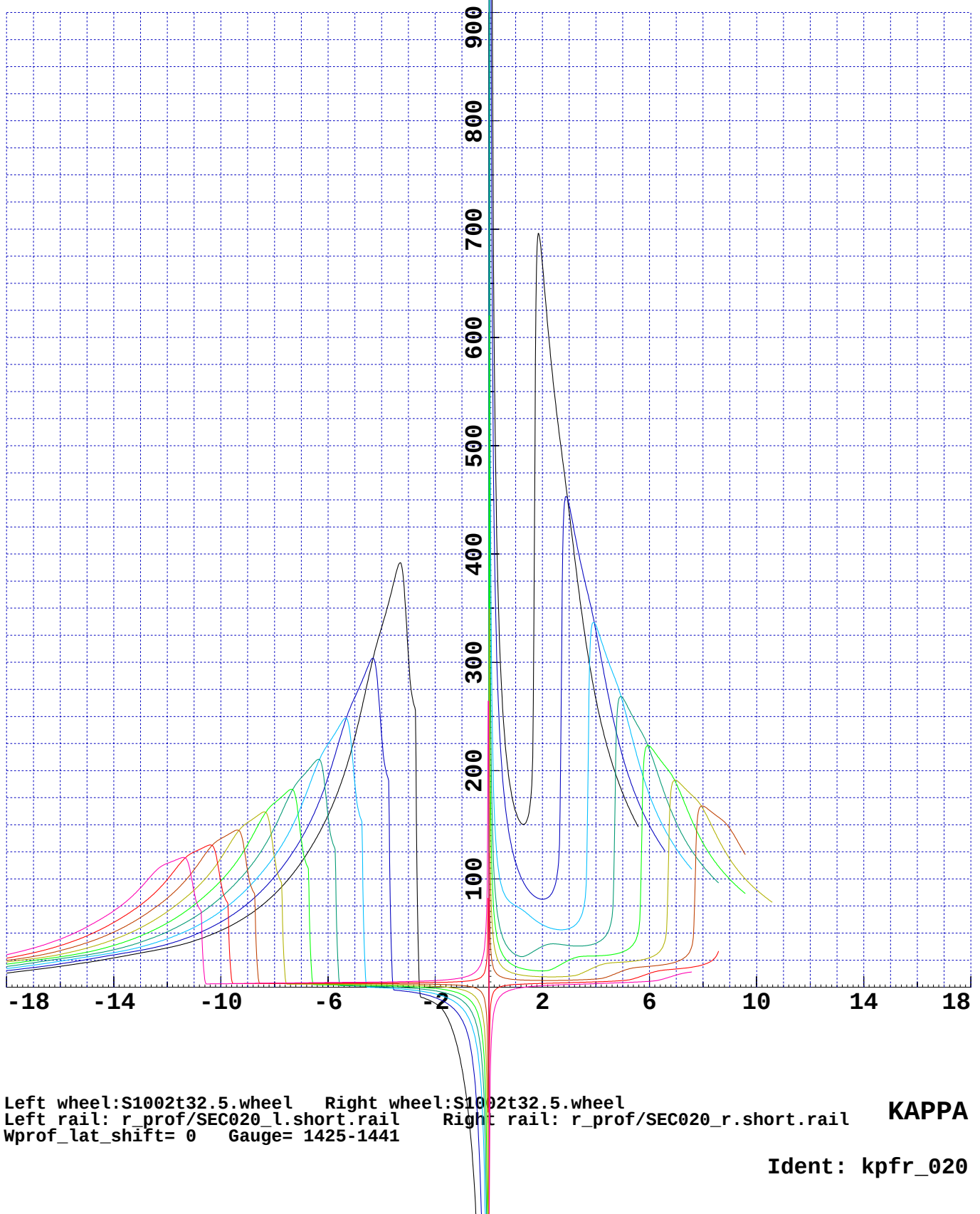


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel tan_Ga
 Left rail: r_prof/SEC020_l.short.rail Right rail: r_prof/SEC020_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_020

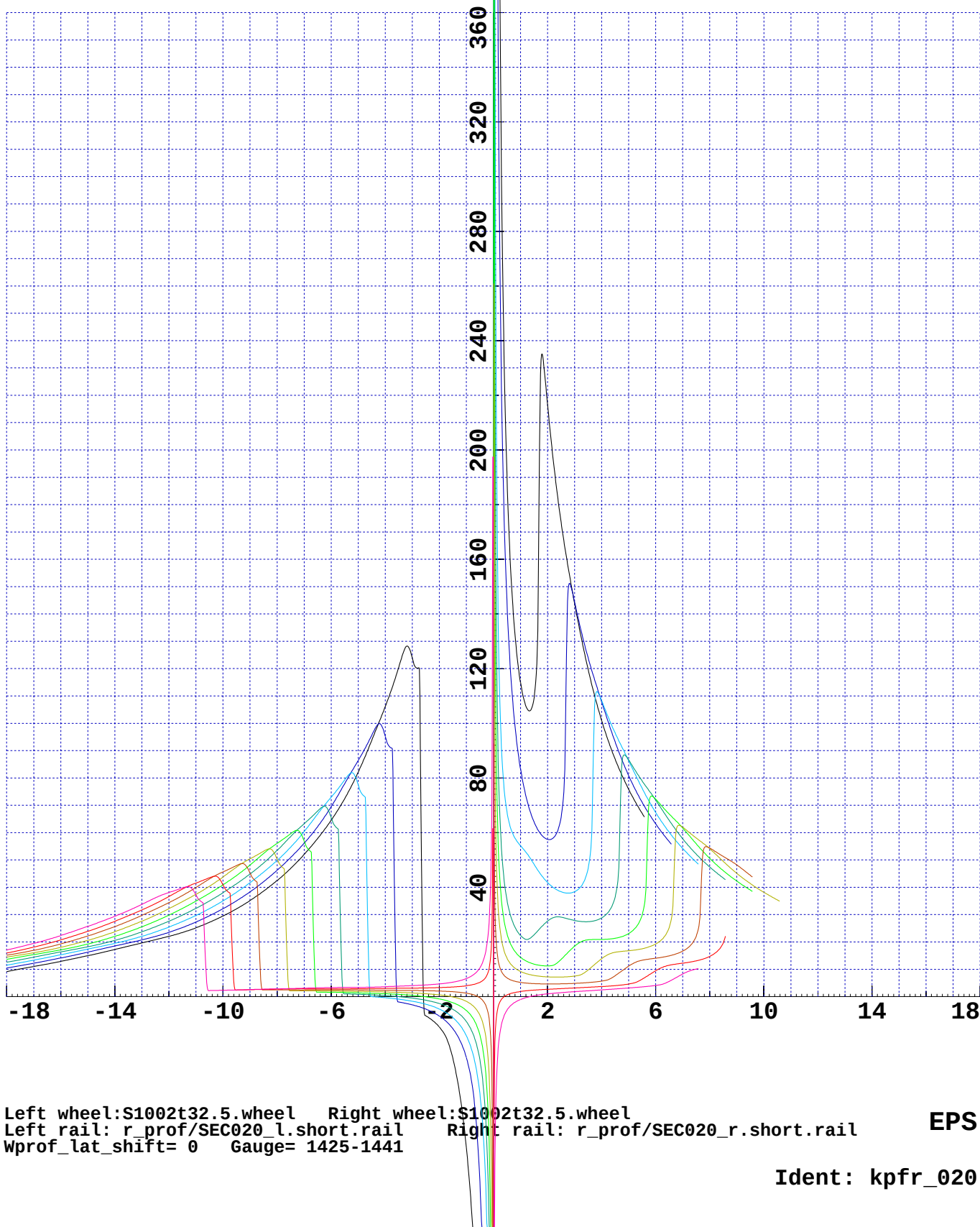
GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	1184.57	266.75	667.81	438.63	265.86	128.70
1427	—	810.56	199.30	81.24	445.23	328.99	149.25
1429	—	317.24	91.56	57.70	54.19	333.95	177.28
1431	—	200.88	47.75	37.65	38.50	40.67	219.37
1433	—	128.97	31.08	15.12	25.14	28.90	222.68
1435	—	73.92	18.98	9.72	10.12	18.88	27.17
1437	—	28.25	9.22	6.24	6.52	7.63	19.39
1439	—	-11.77	.83	3.56	4.22	4.95	12.86
1441	—	-48.43	-6.71	1.35	2.46	3.31	5.48



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	855.94	191.52	216.57	143.80	101.02	59.24
1427	—	593.96	145.08	57.54	144.40	107.87	63.23
1429	—	235.63	67.78	41.75	38.38	108.32	67.37
1431	—	149.55	35.52	27.65	27.86	28.80	71.94
1433	—	96.13	23.15	11.23	18.46	20.91	72.25
1435	—	55.15	14.16	7.24	7.52	13.87	19.25
1437	—	21.09	6.88	4.65	4.86	5.67	14.04
1439	—	-8.79	.62	2.66	3.15	3.69	9.44
1441	—	-36.19	-5.01	1.00	1.83	2.47	4.07



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge=	1425	16.99	3.61	1.40	1.58	1.61	1.51
	1427	15.46	3.27	1.01	.96	1.20	1.32
	1429	14.69	3.04	.92	.70	.74	1.10
	1431	14.34	2.96	.84	.64	.55	.83
	1433	14.09	2.90	.81	.59	.50	.52
	1435	13.93	2.86	.79	.57	.46	.39
	1437	13.83	2.84	.78	.55	.44	.35
	1439	13.78	2.82	.77	.54	.43	.32
	1441	13.77	2.82	.76	.54	.42	.30

