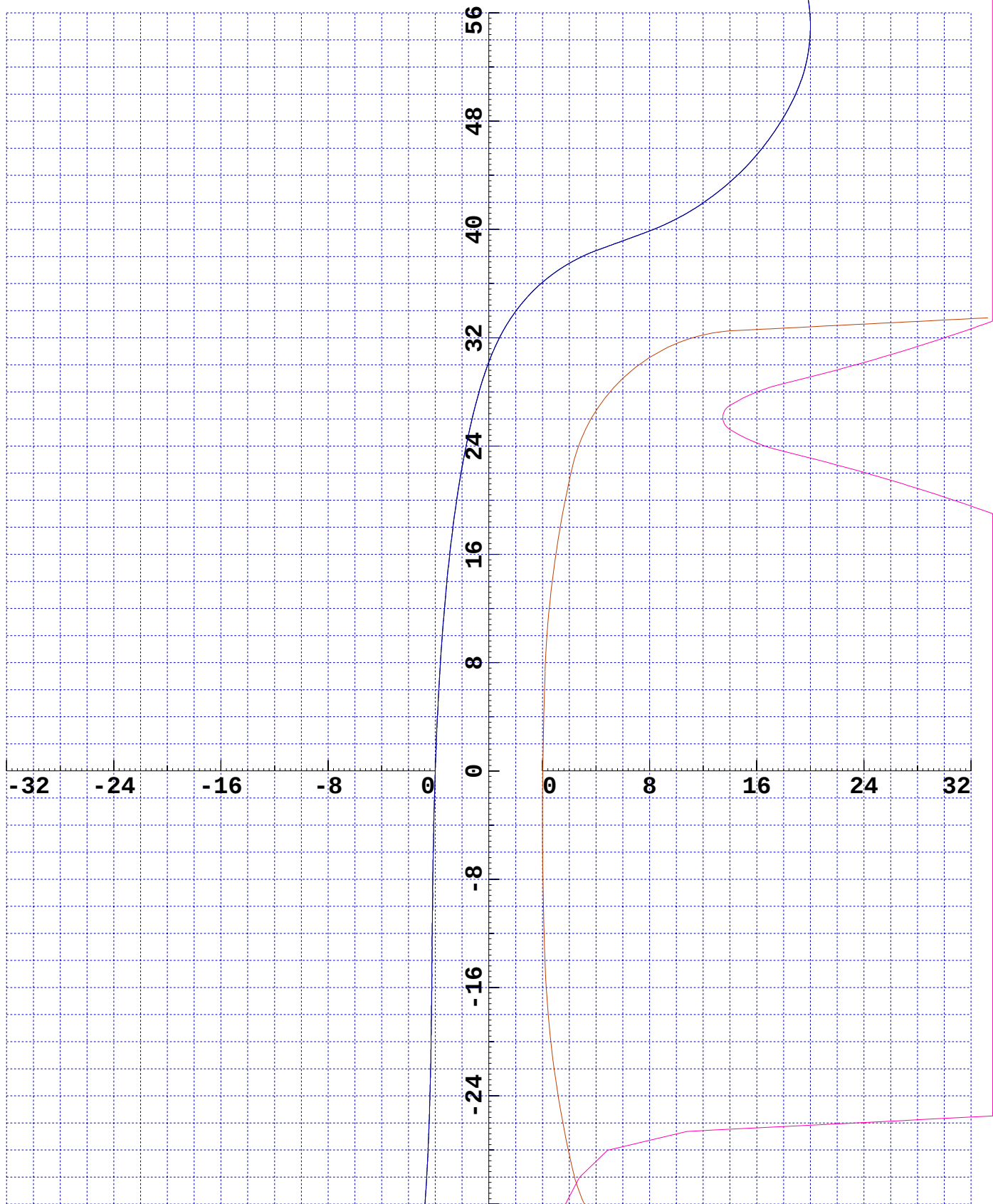
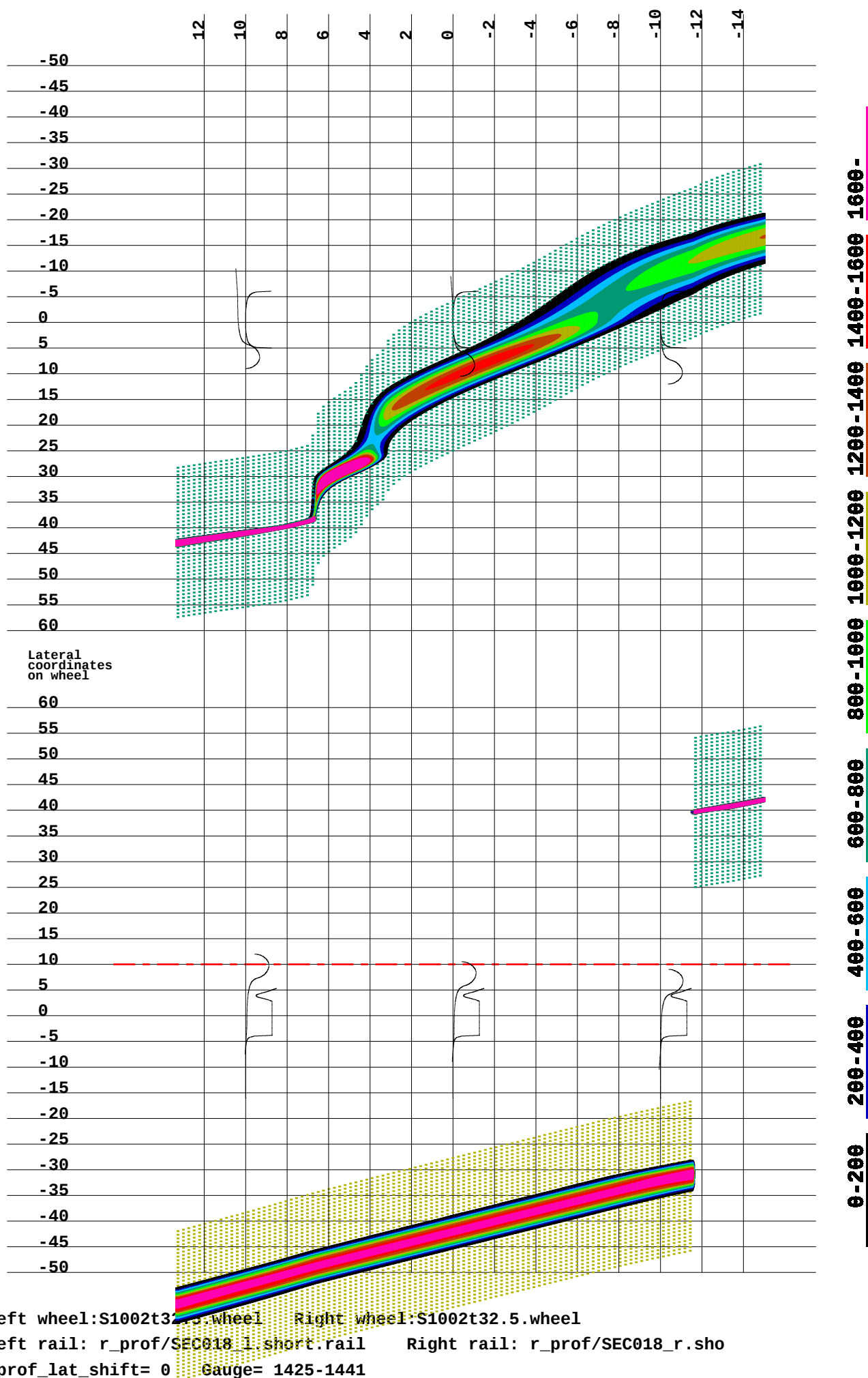


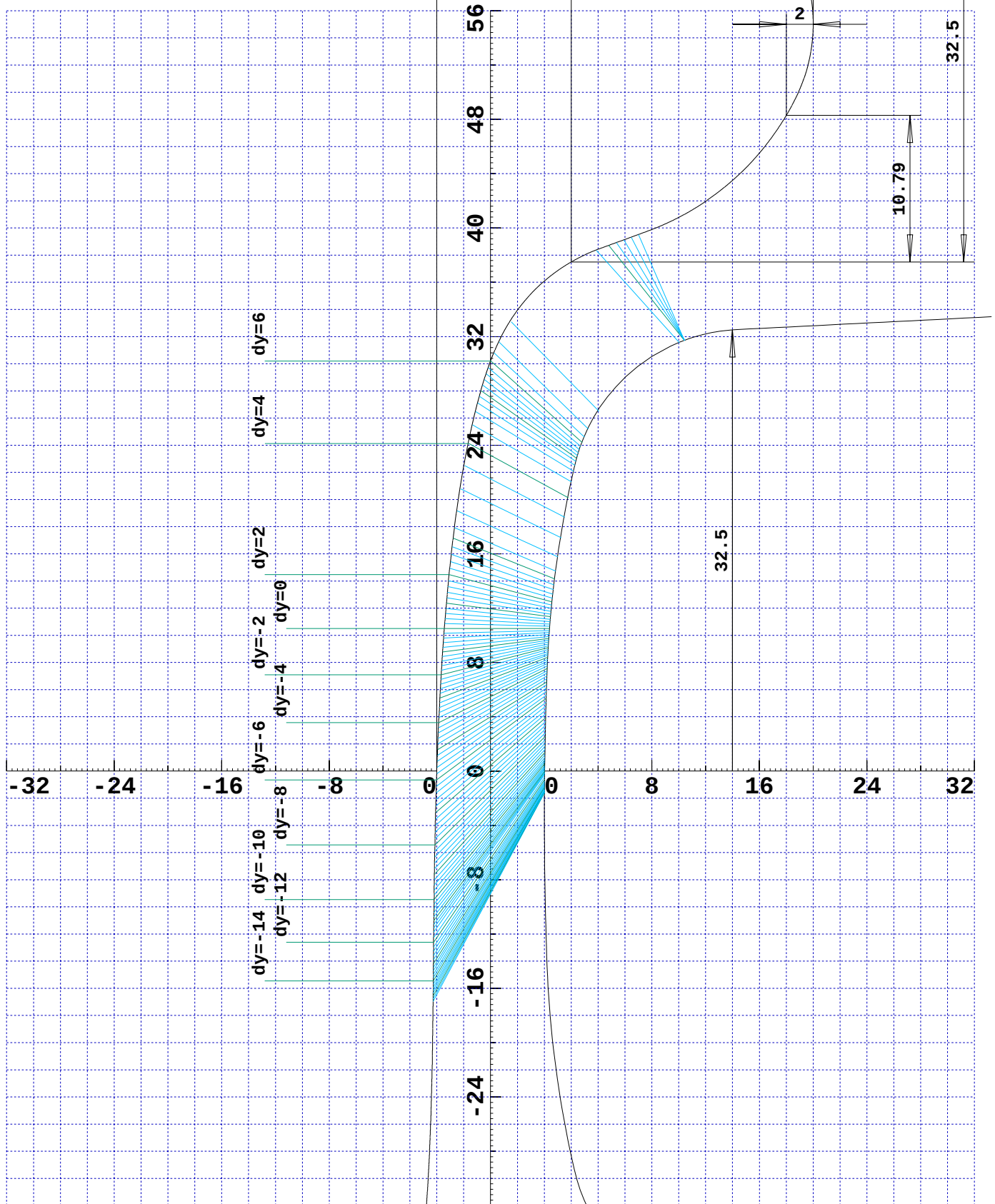
- Right wheel
- Left wheel
- Right rail
- Left rail



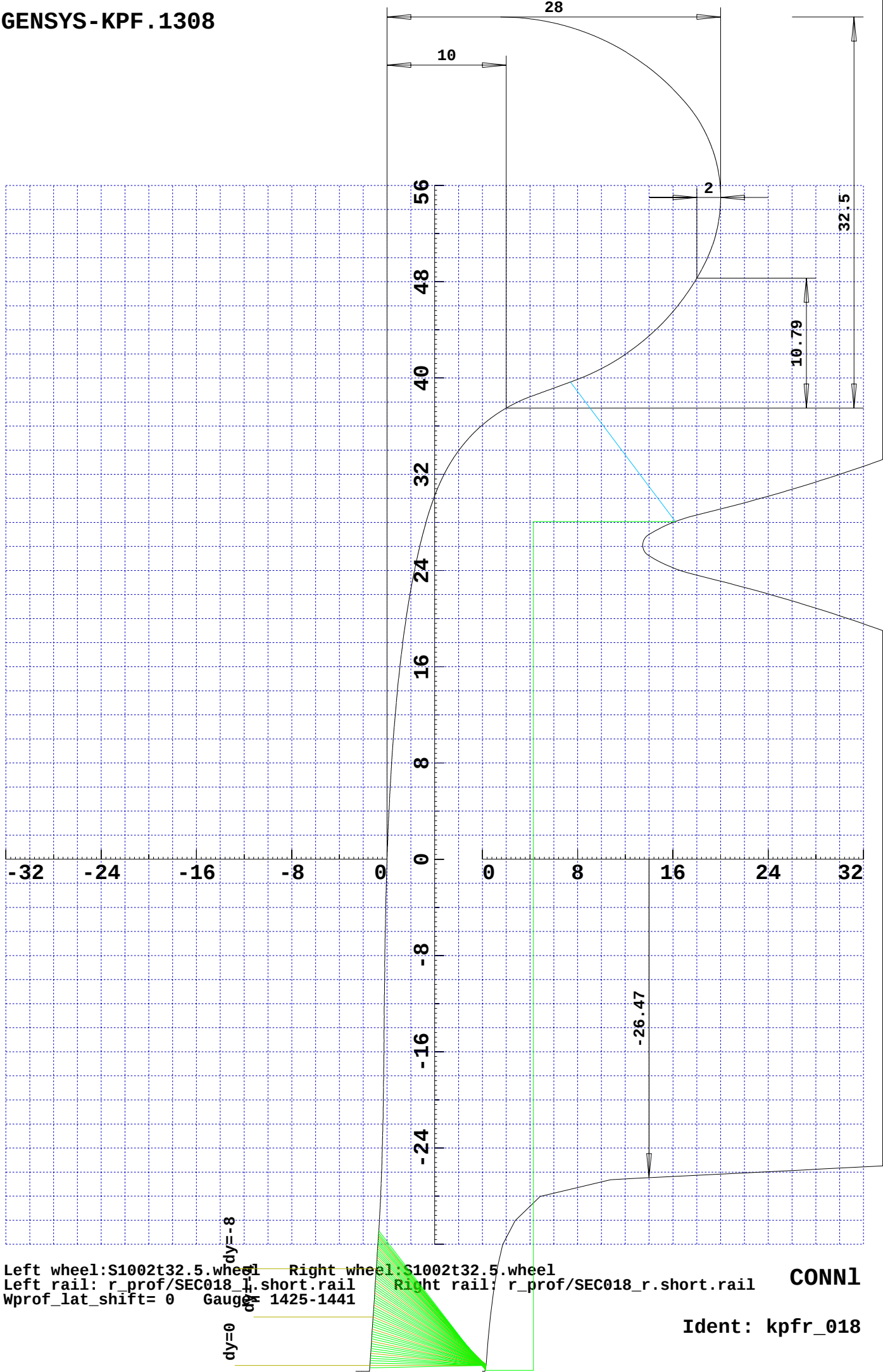
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

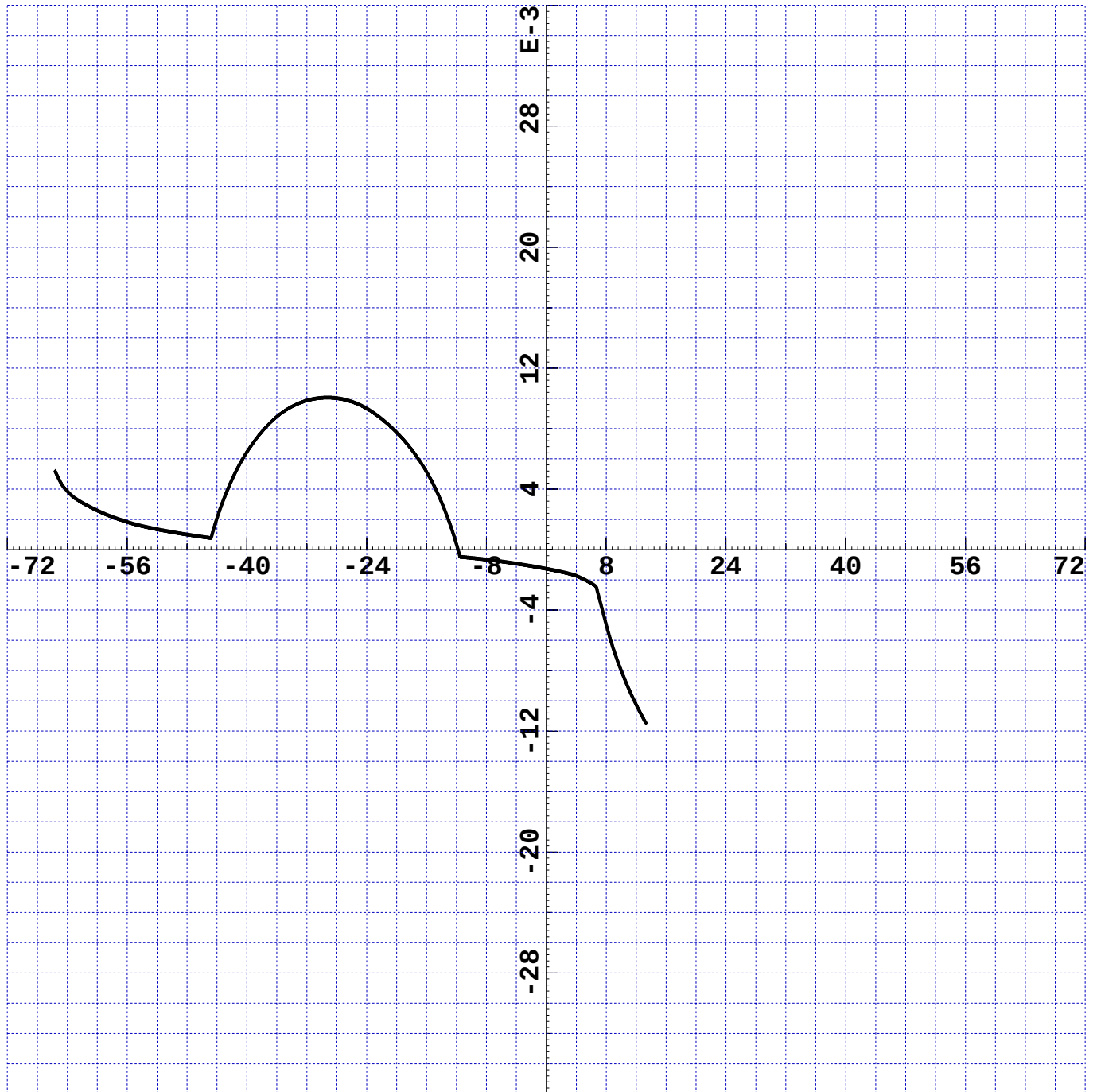
Ident: kpfr_018



**CONNr**

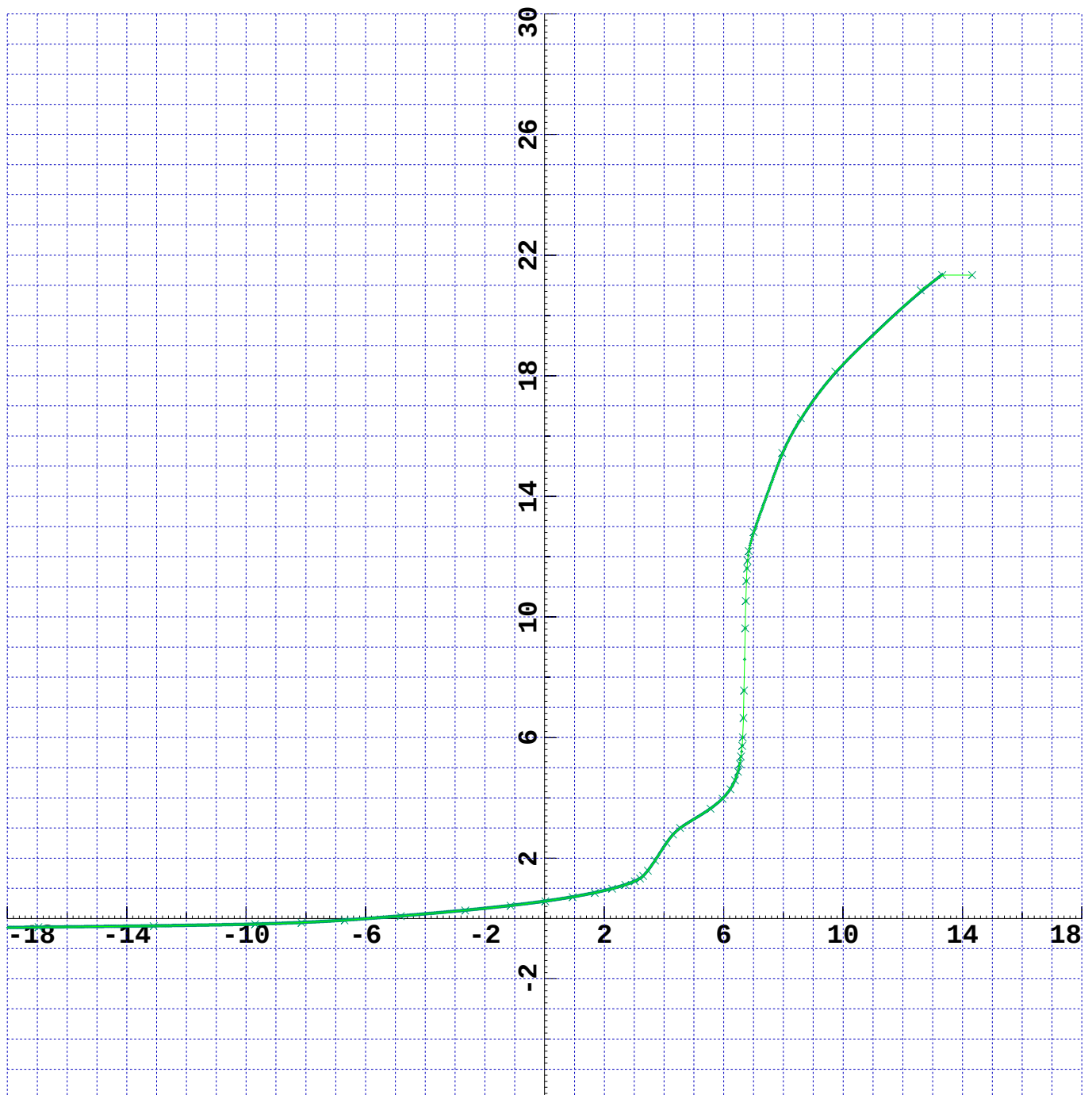
Ident: kpfr_018





Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flax1**
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

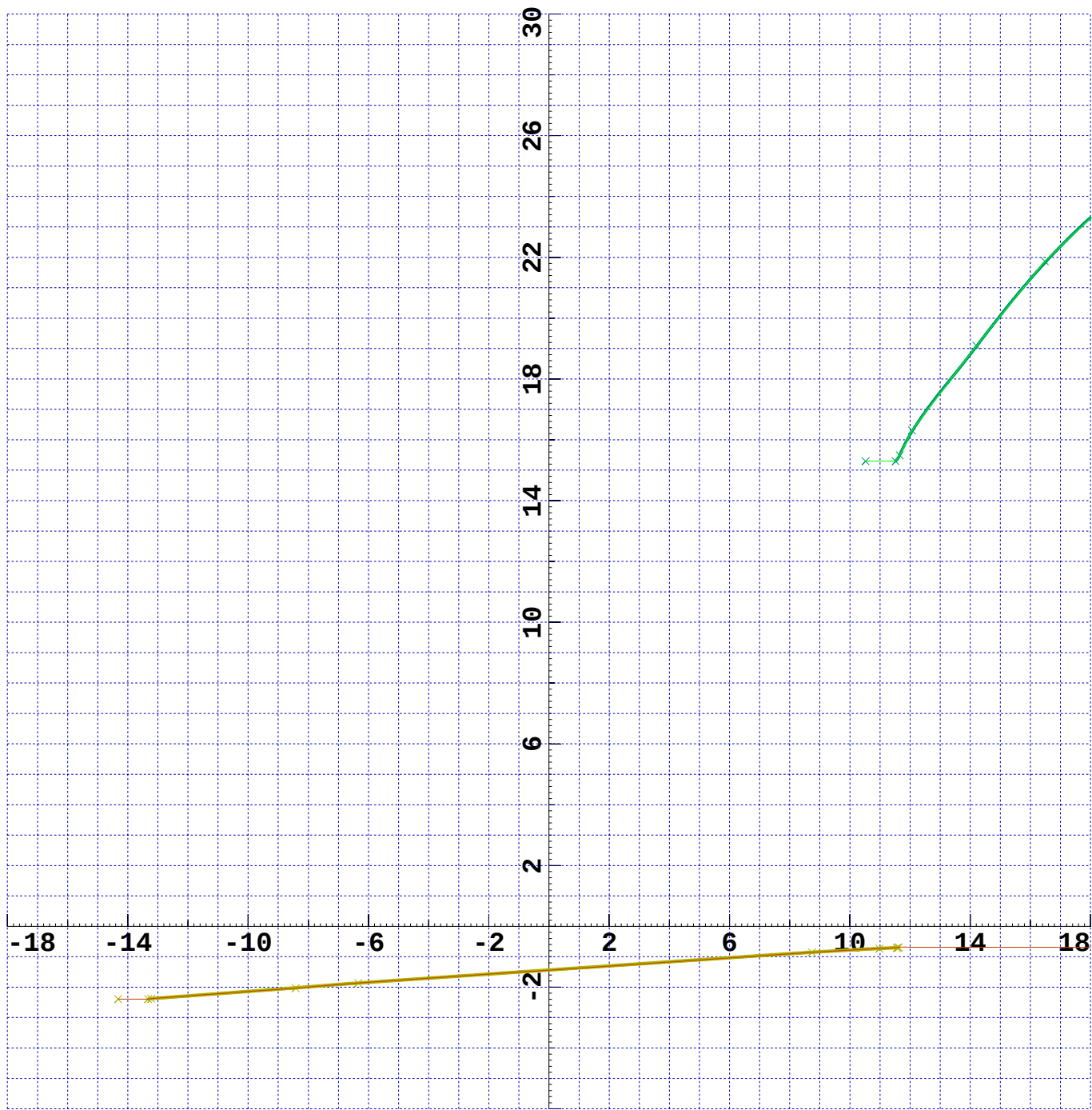
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

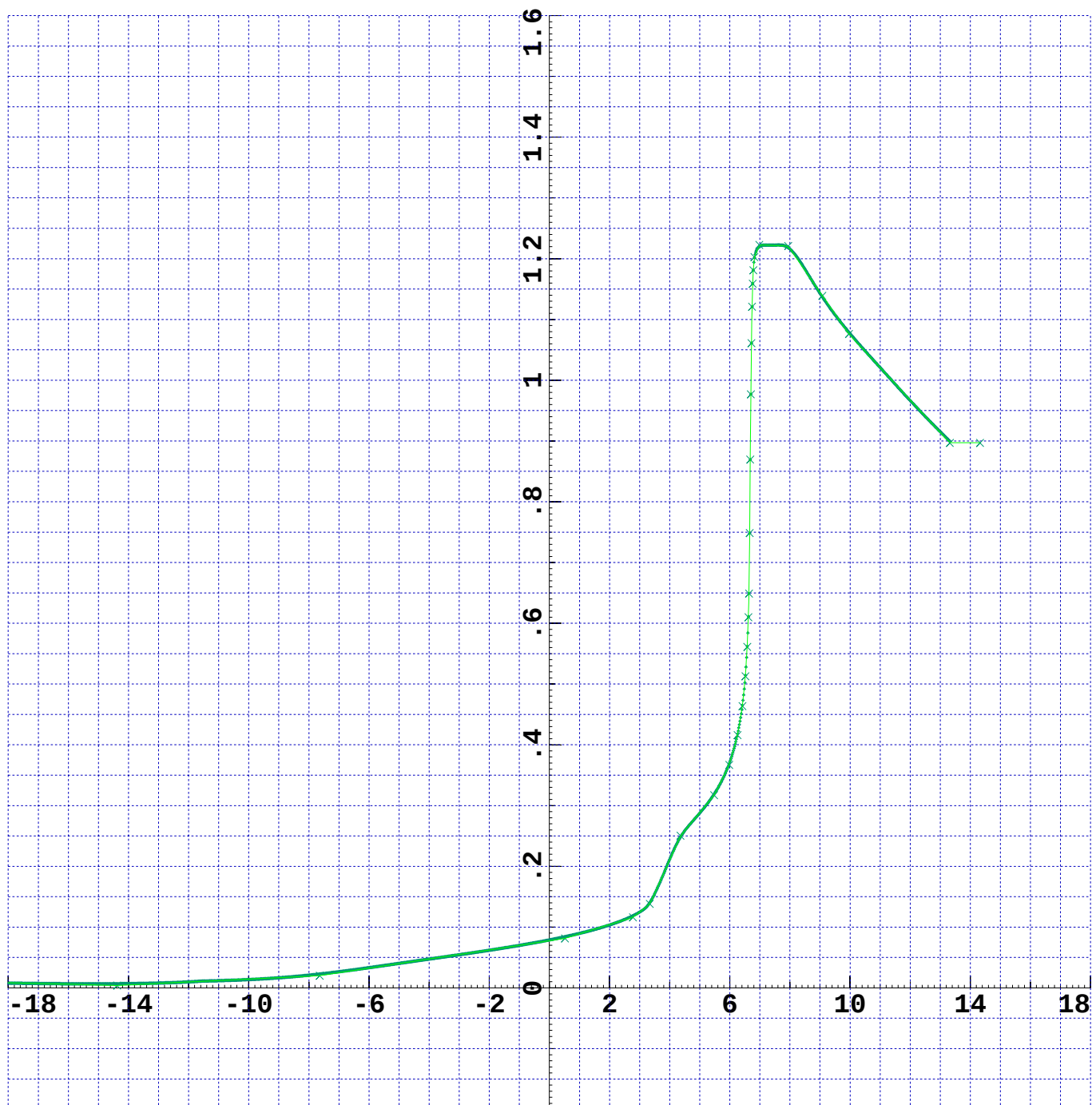
DRFNr

Ident: kpfr_018



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel DRFN1
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018



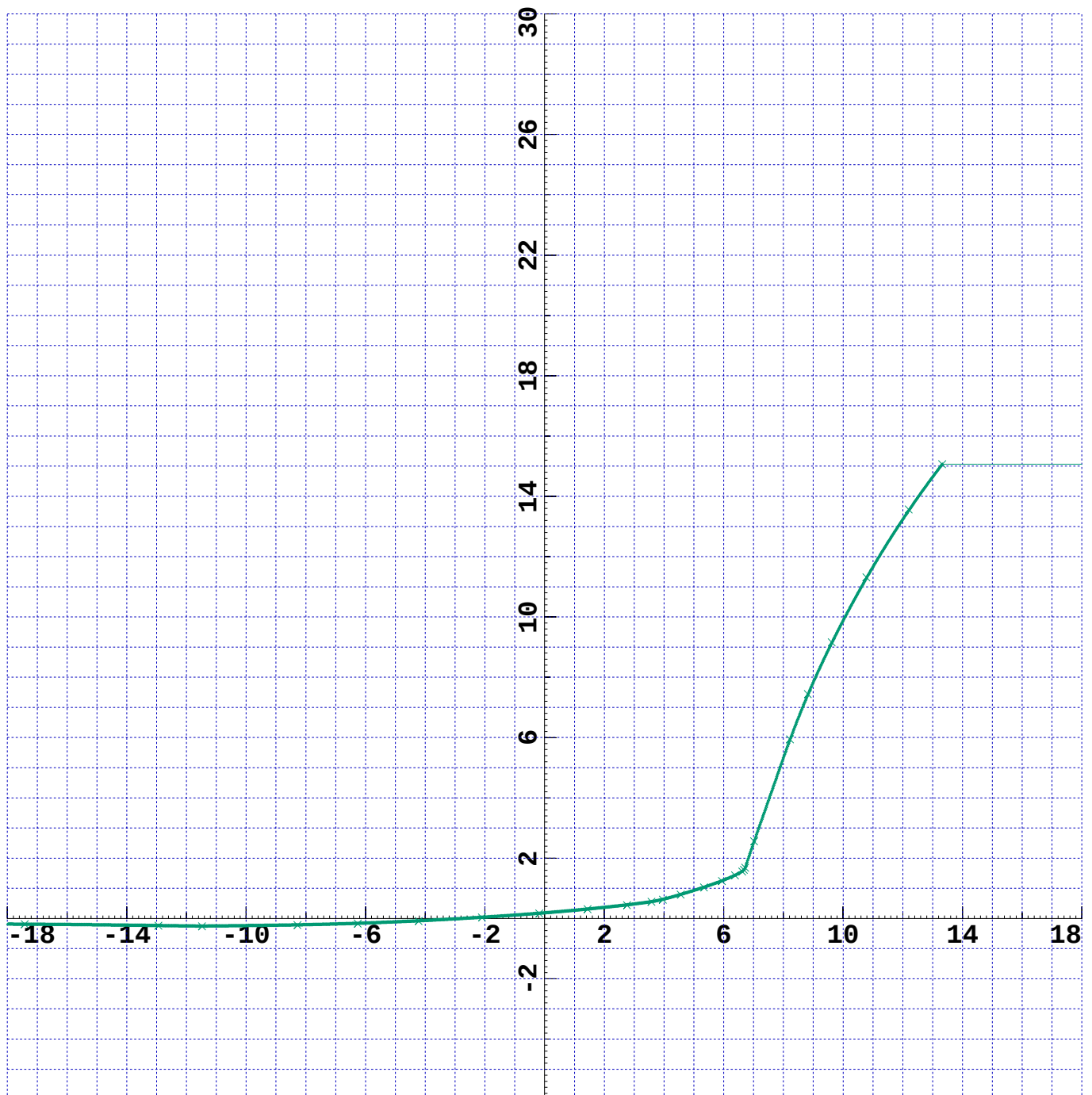
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFNr
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **GAMFN1**
 Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

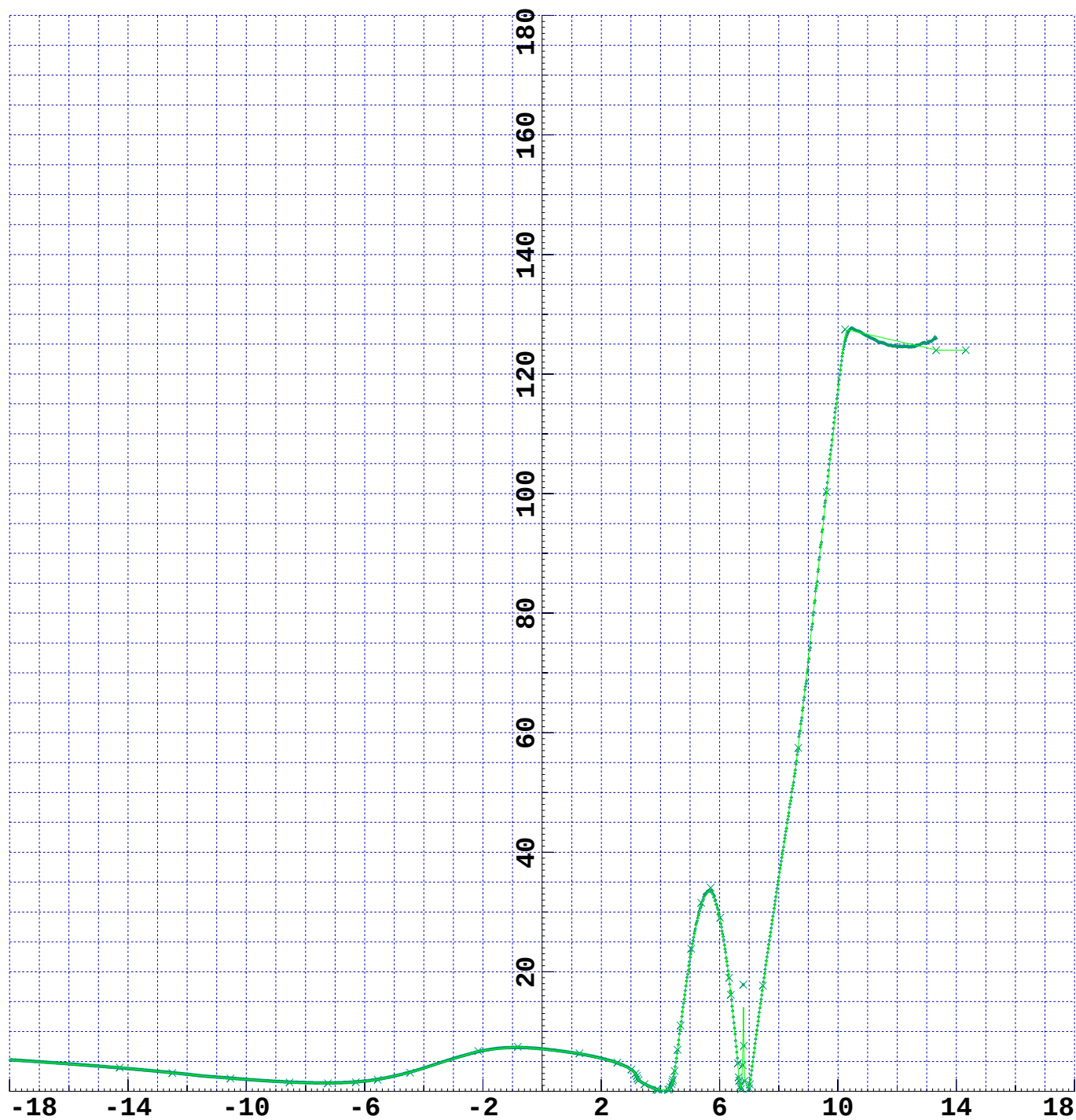
ZFNr

Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ZFN1
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

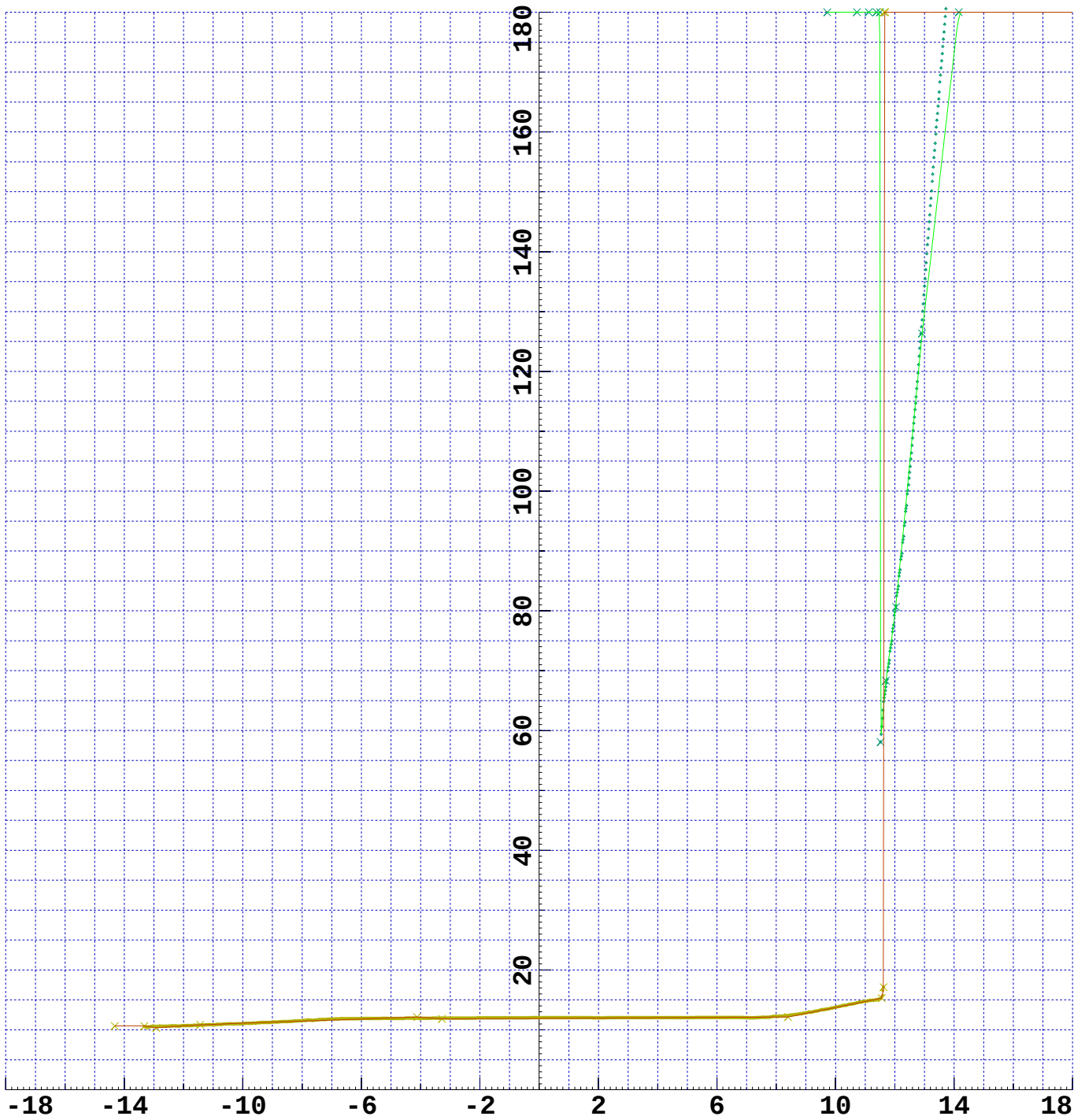
Ident: kpfr_018

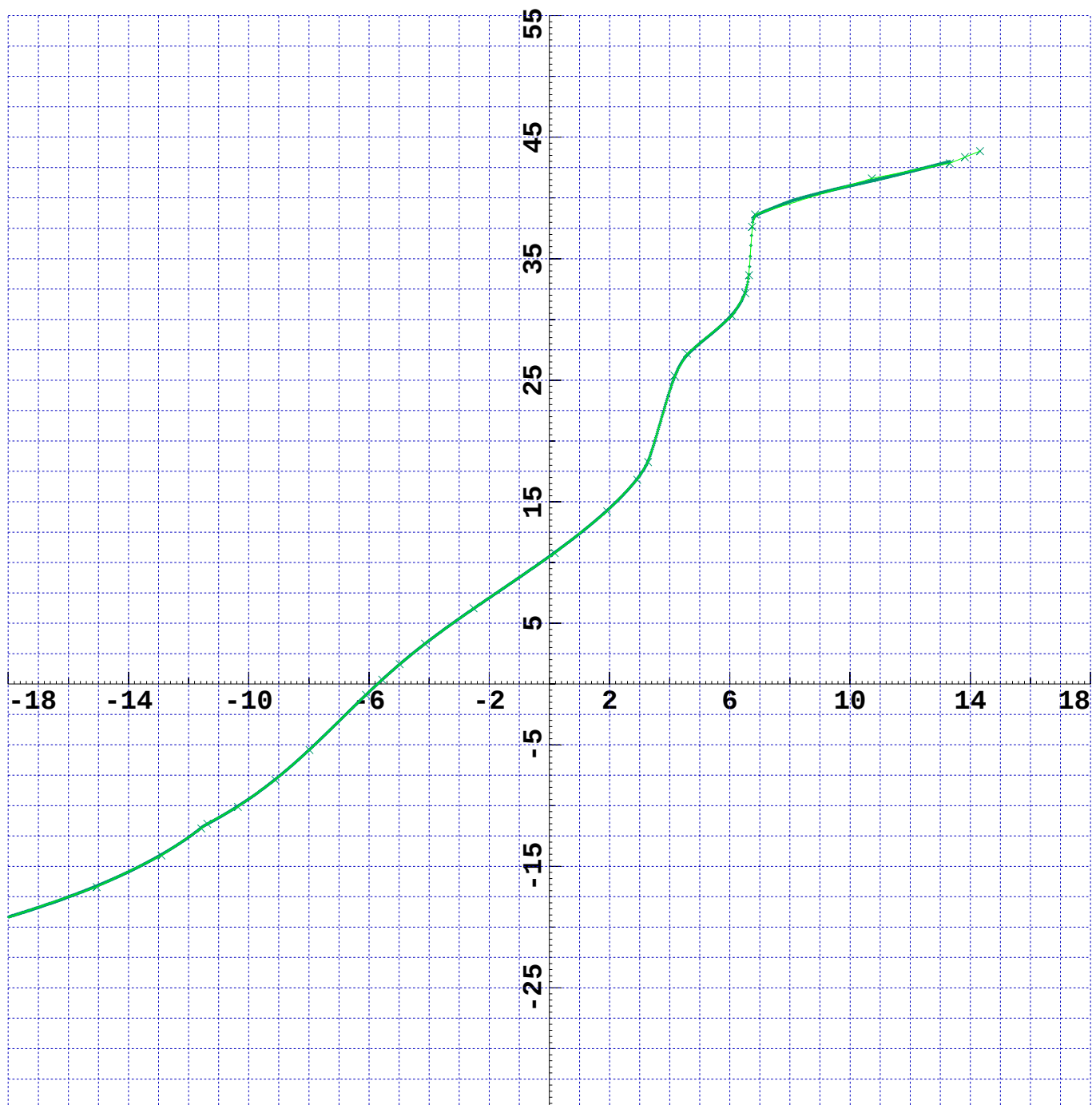


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

Ident: kpfr_018

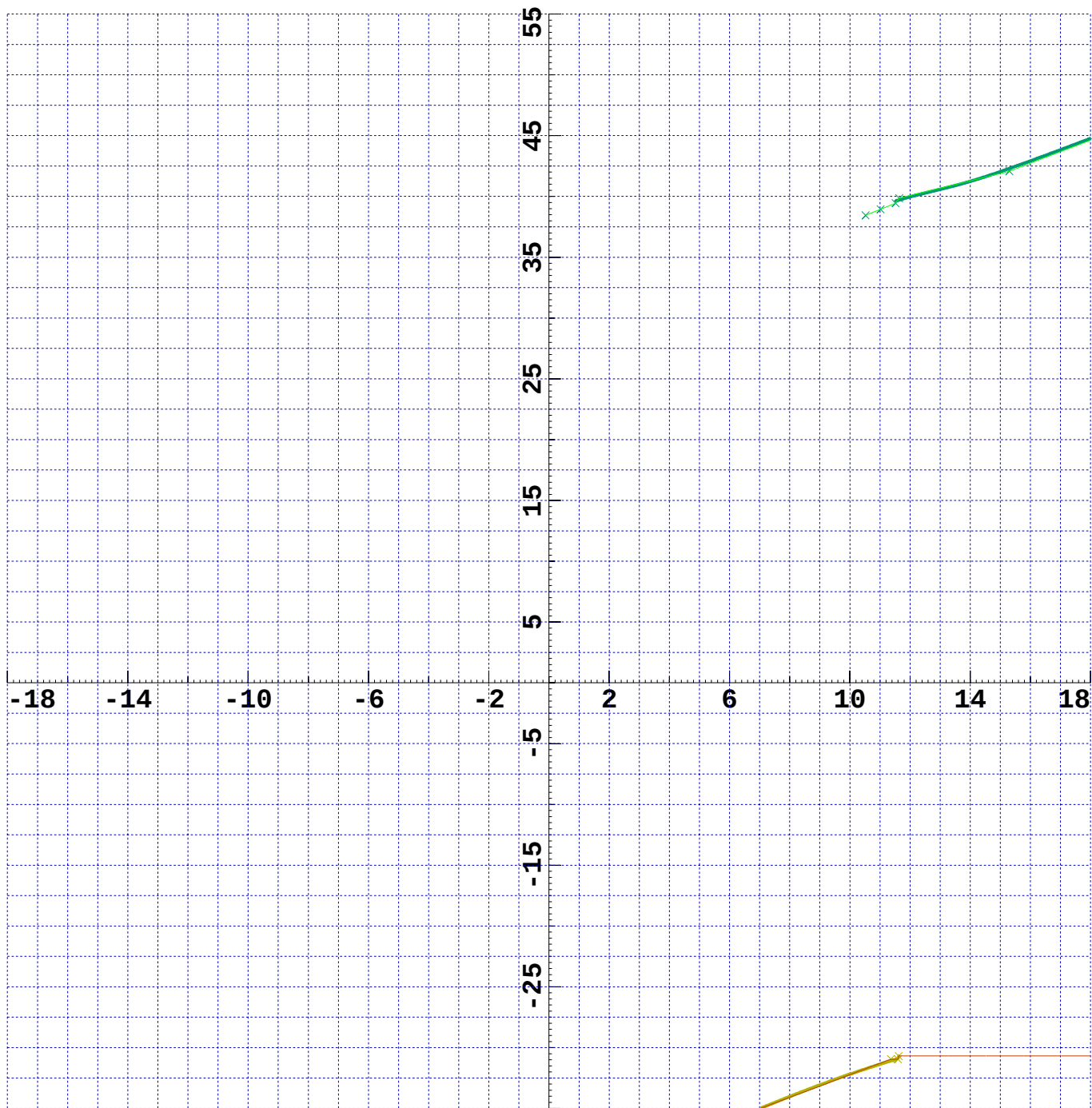




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

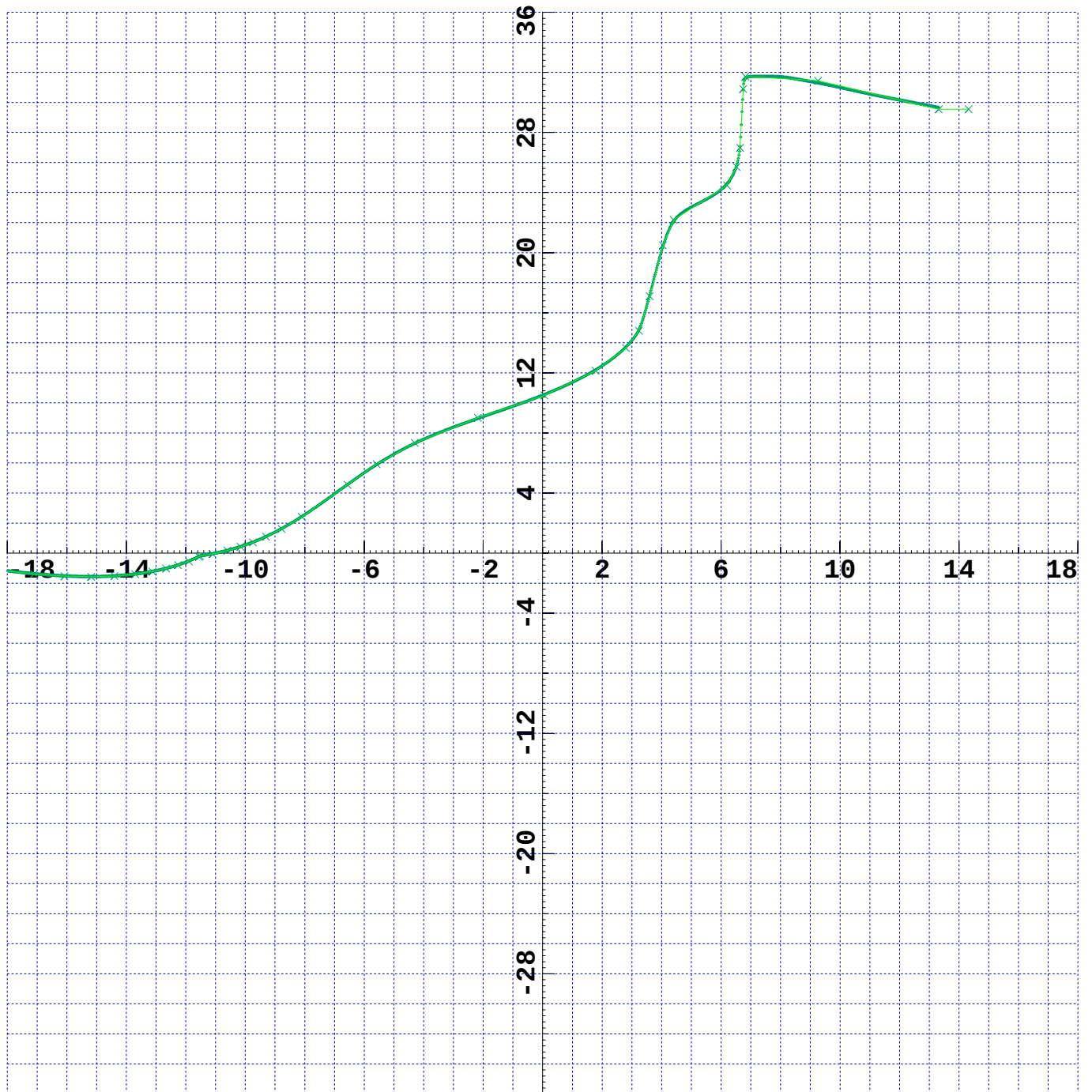
POSWr

Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSW1
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

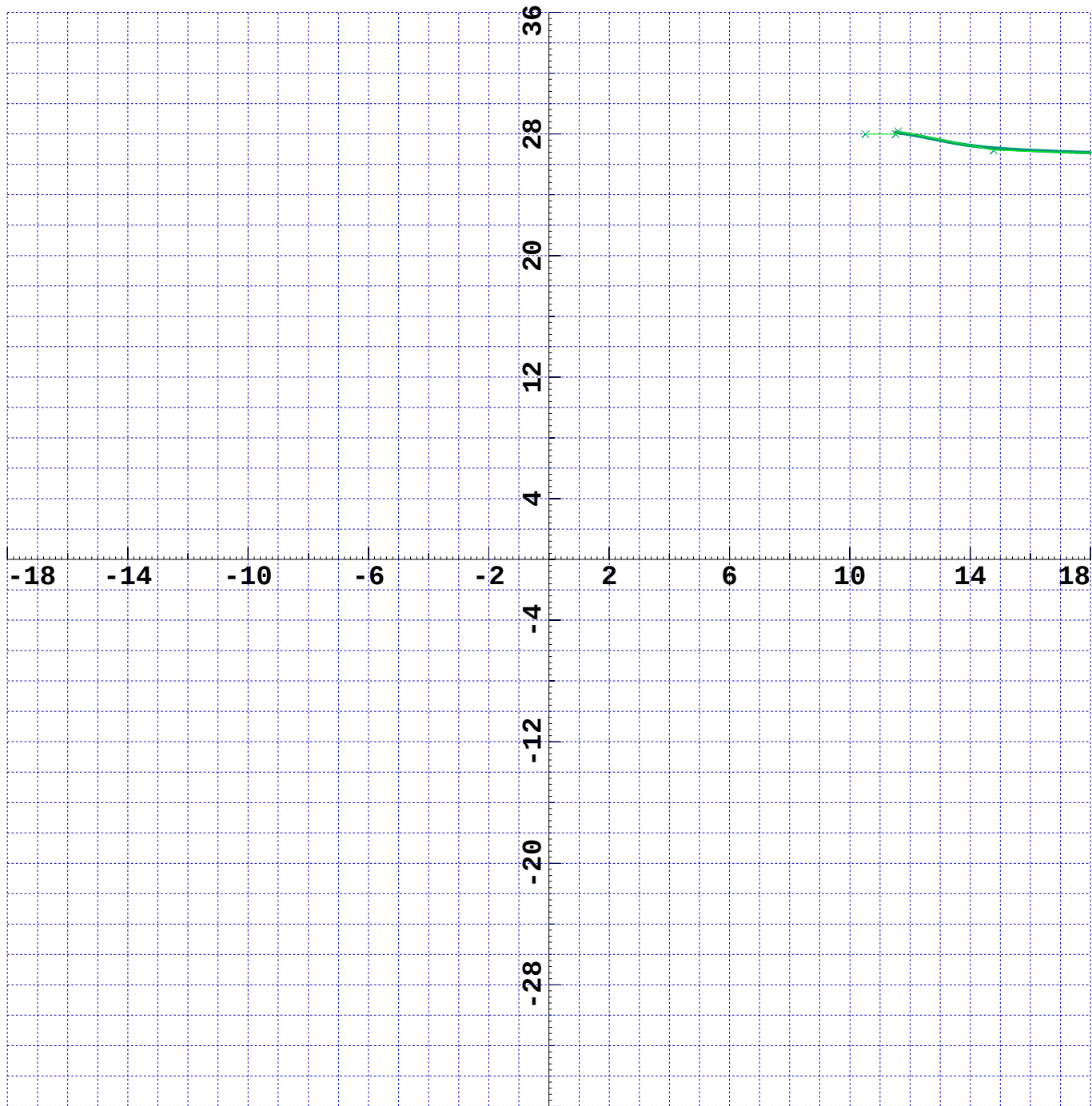
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

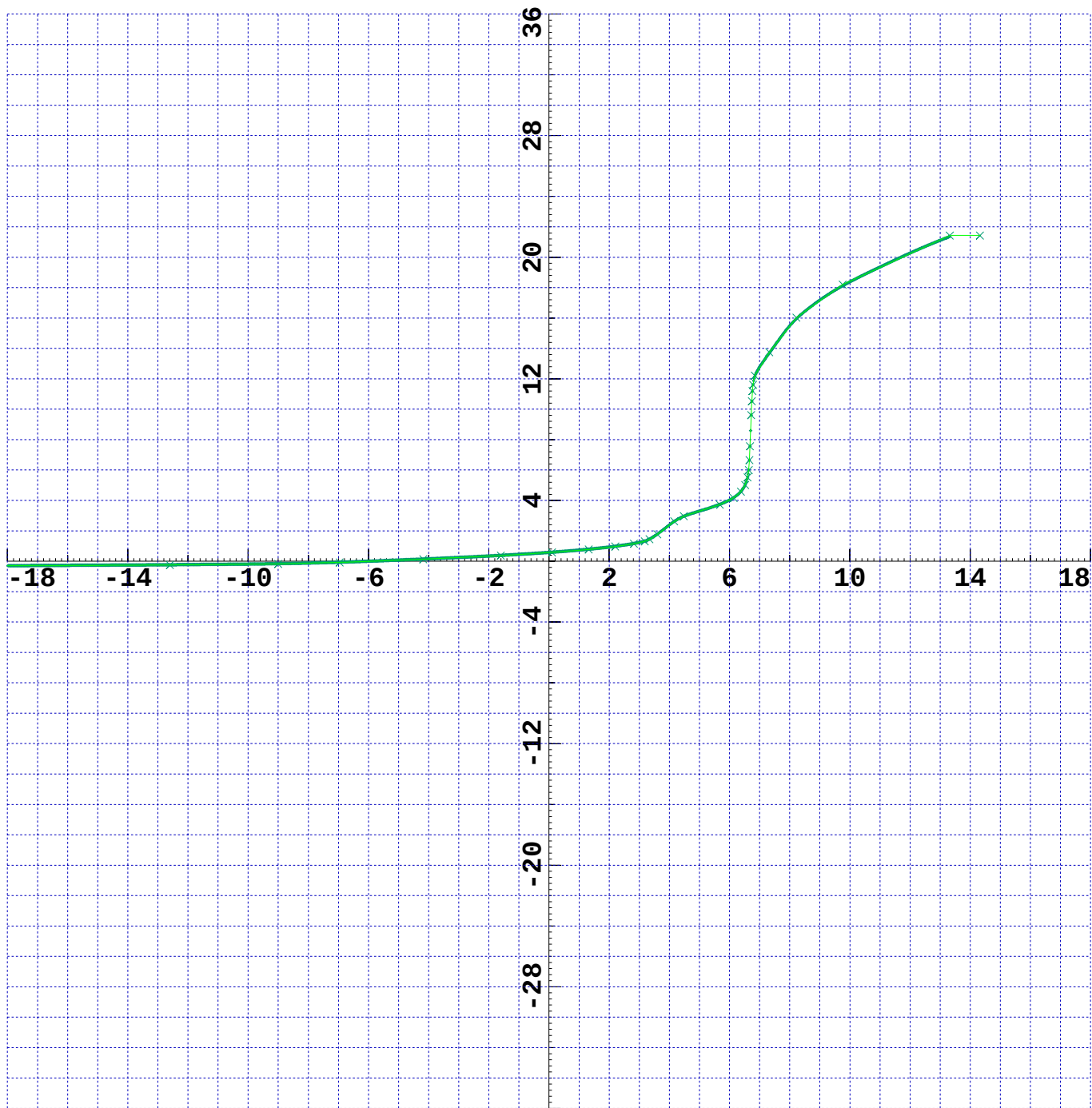
POSRR

Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSR1
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

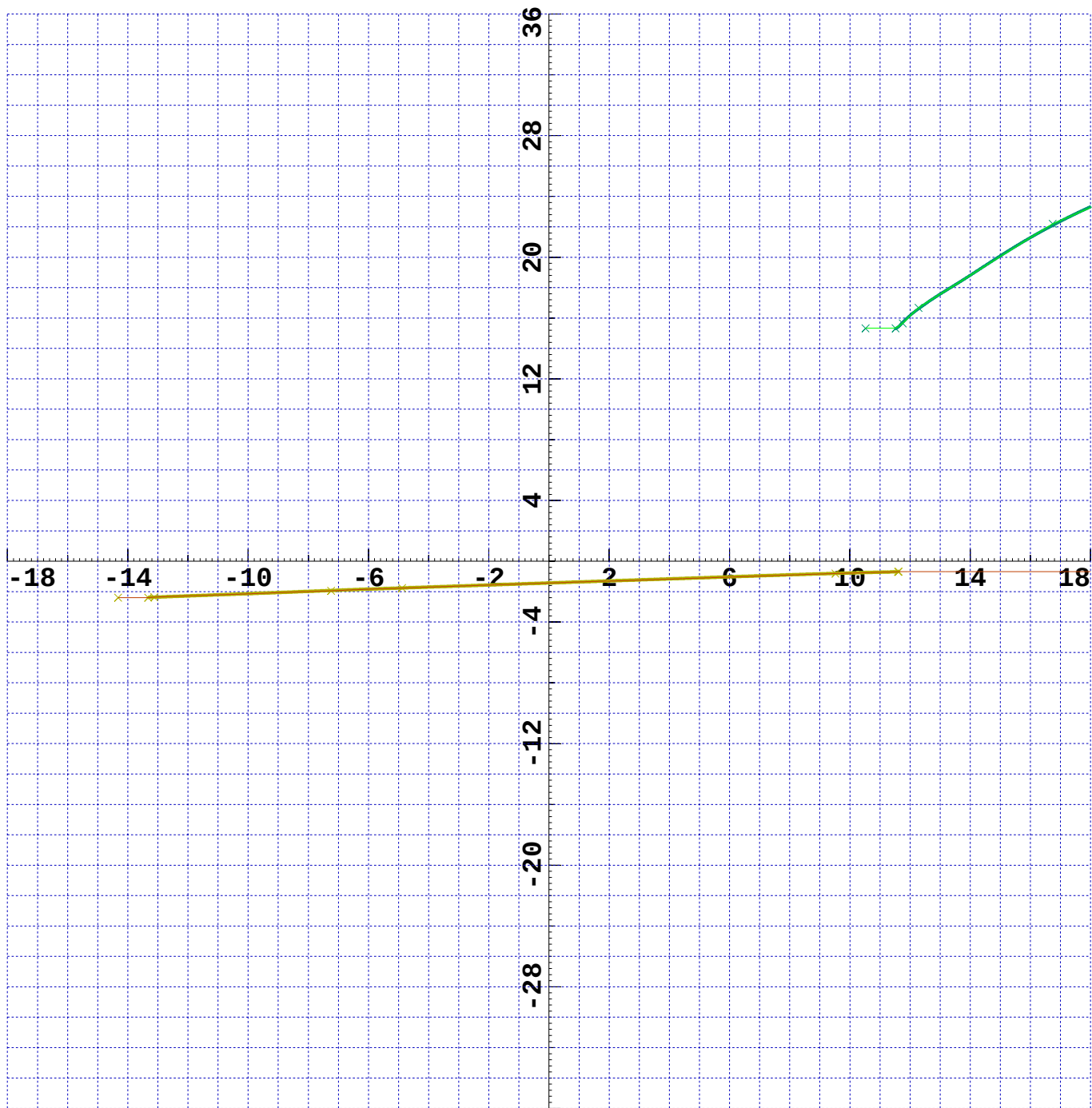
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

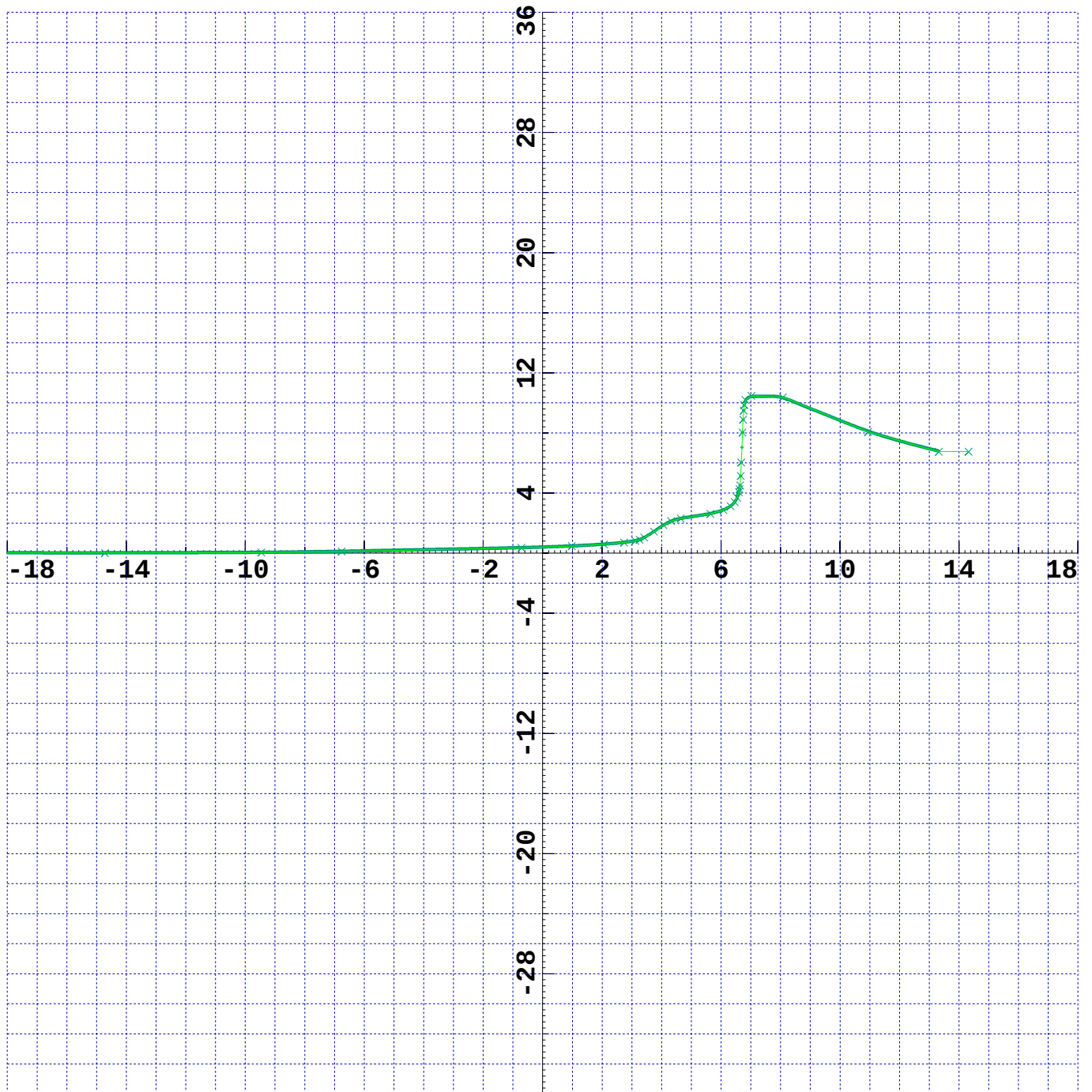
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZW1

Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

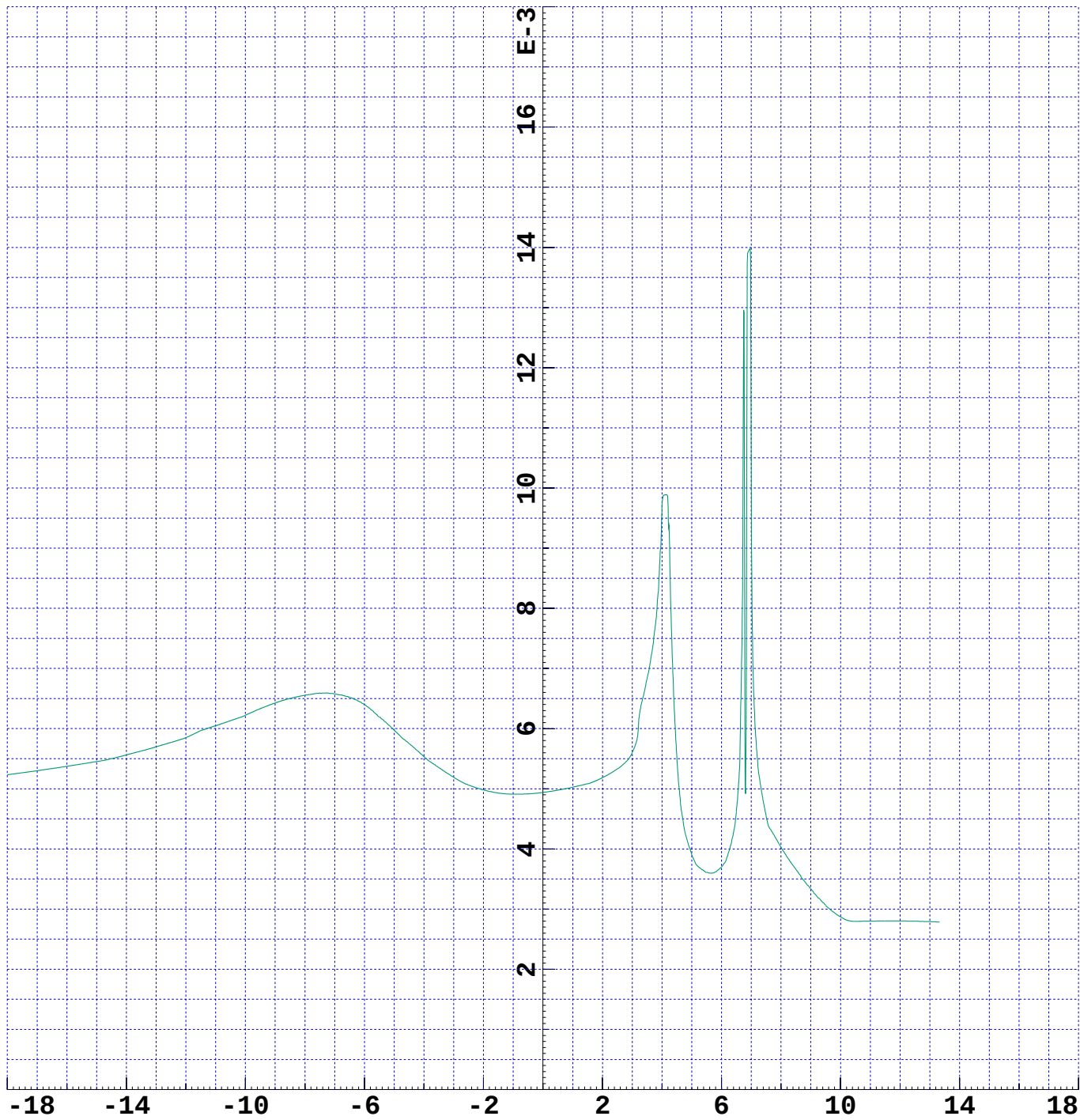
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

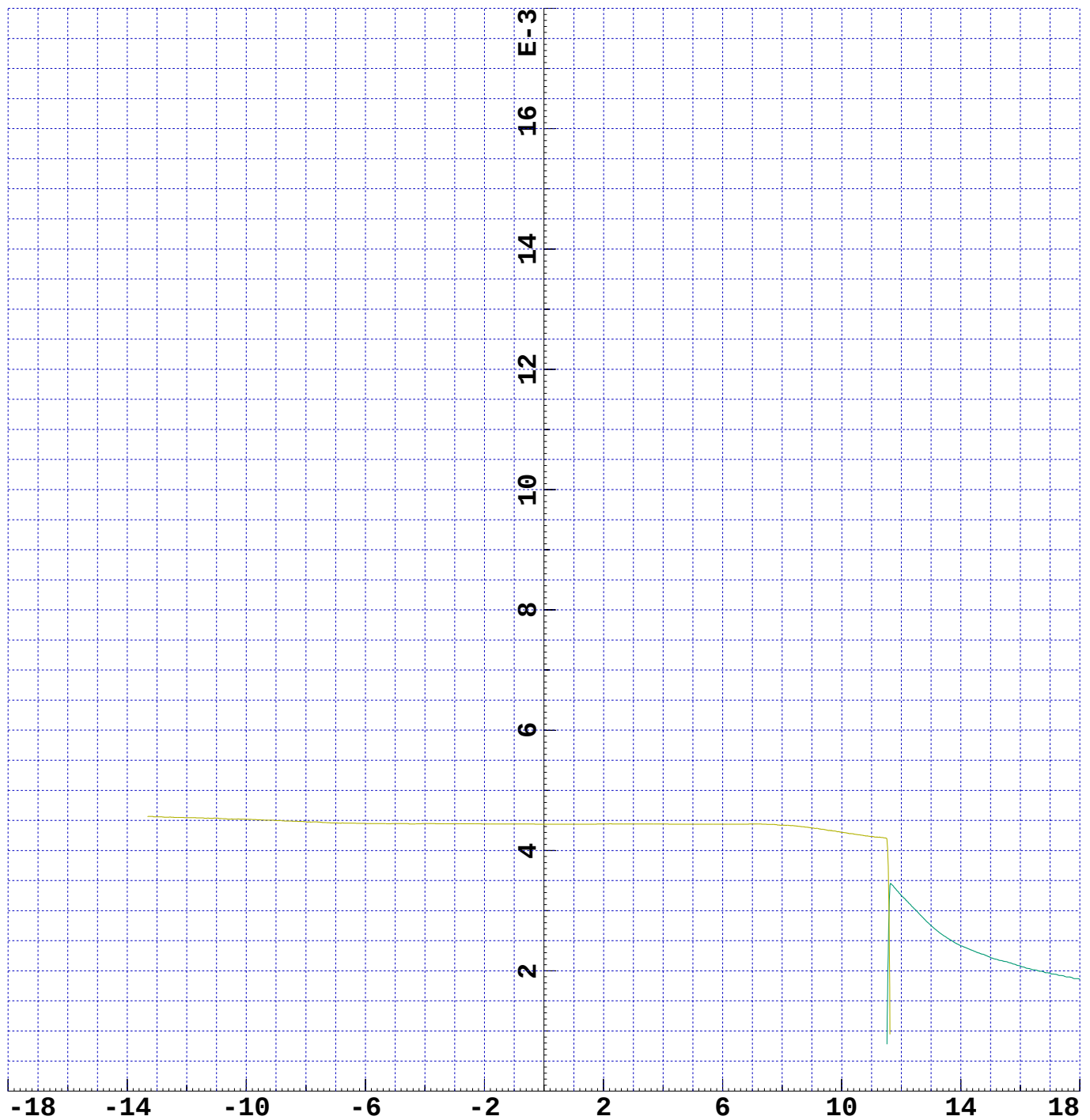
ZR1

Ident: kpfr_018



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel C_r
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

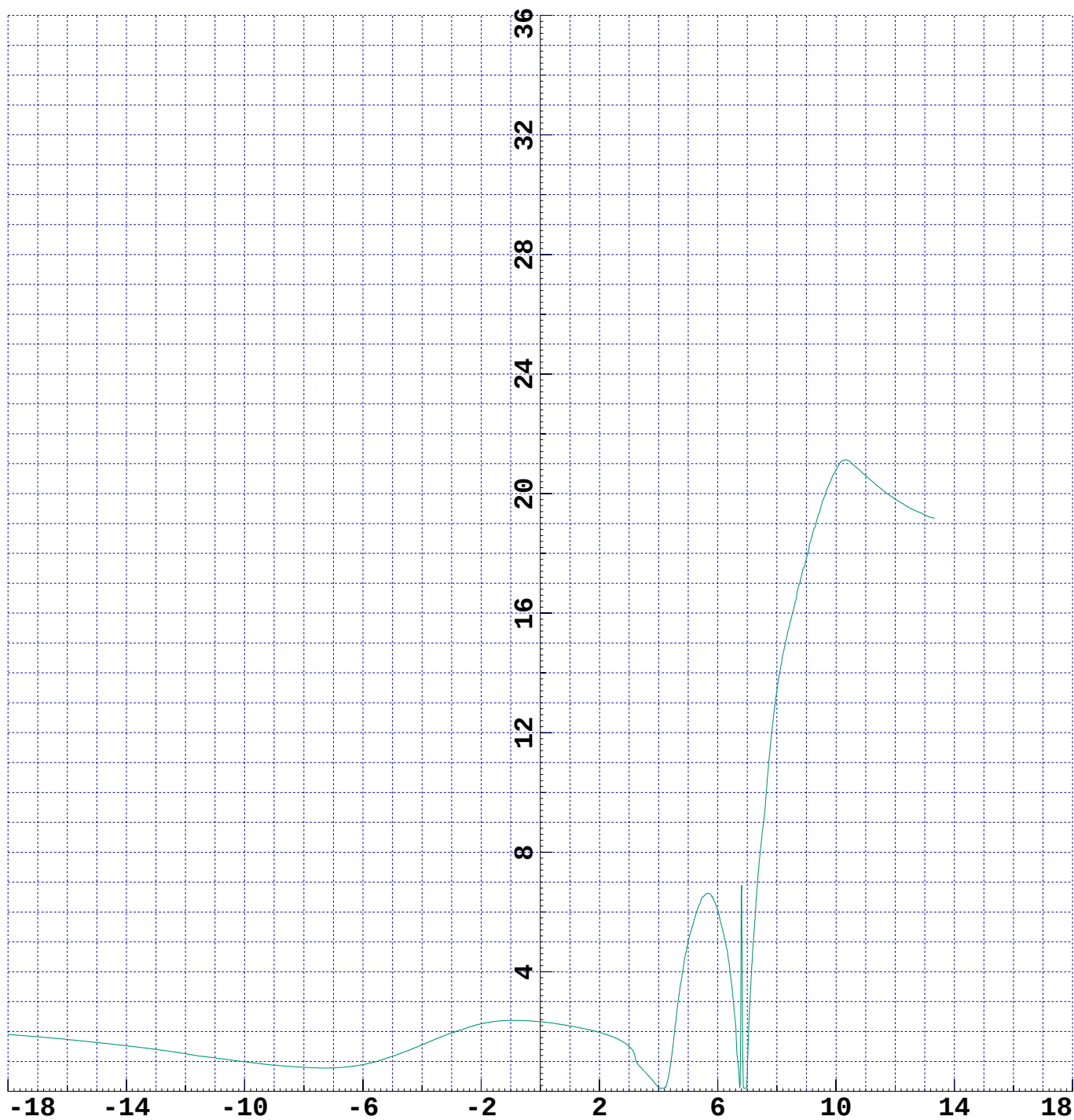
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

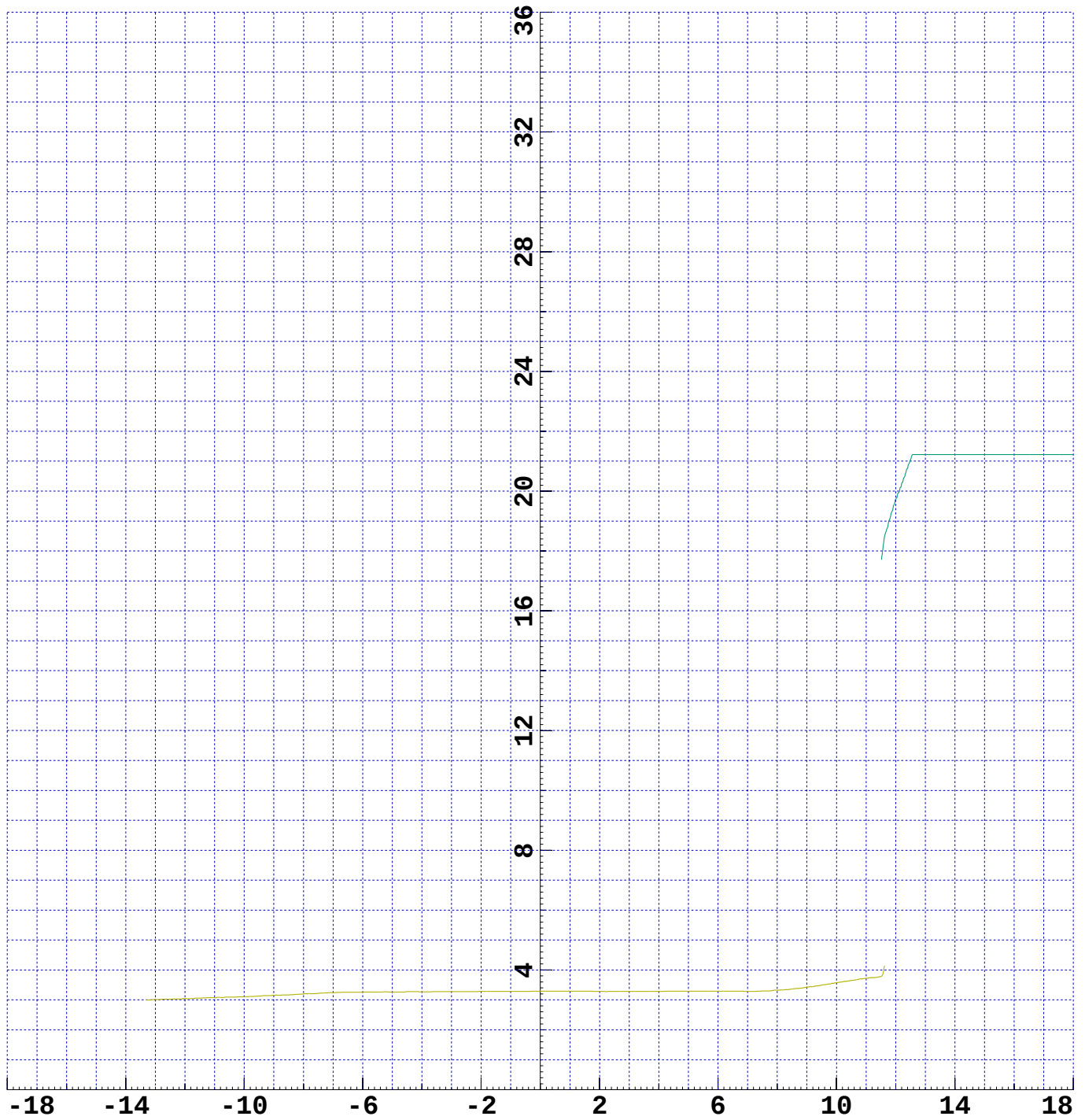
C_1

Ident: kpfr_018



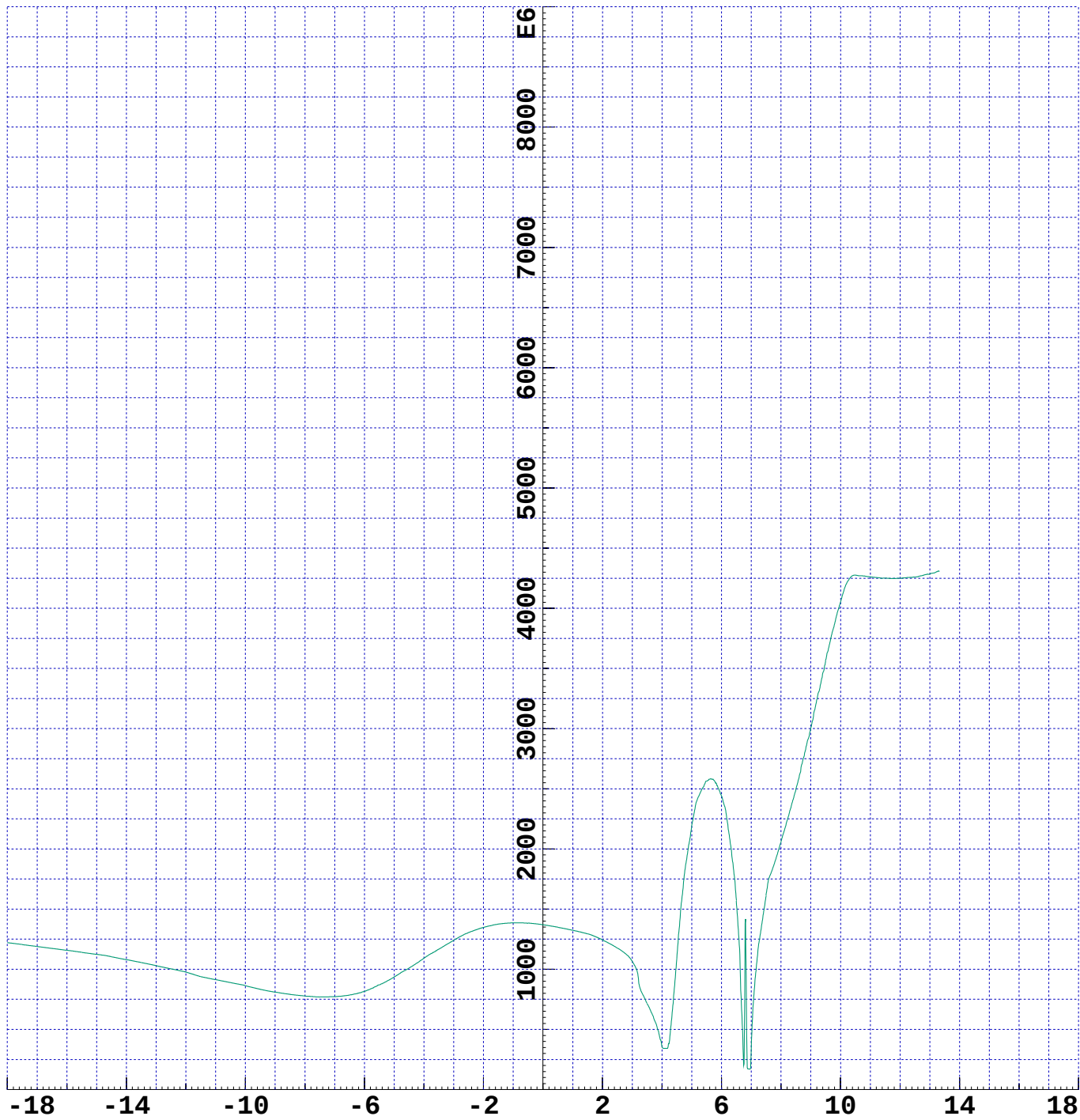
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018

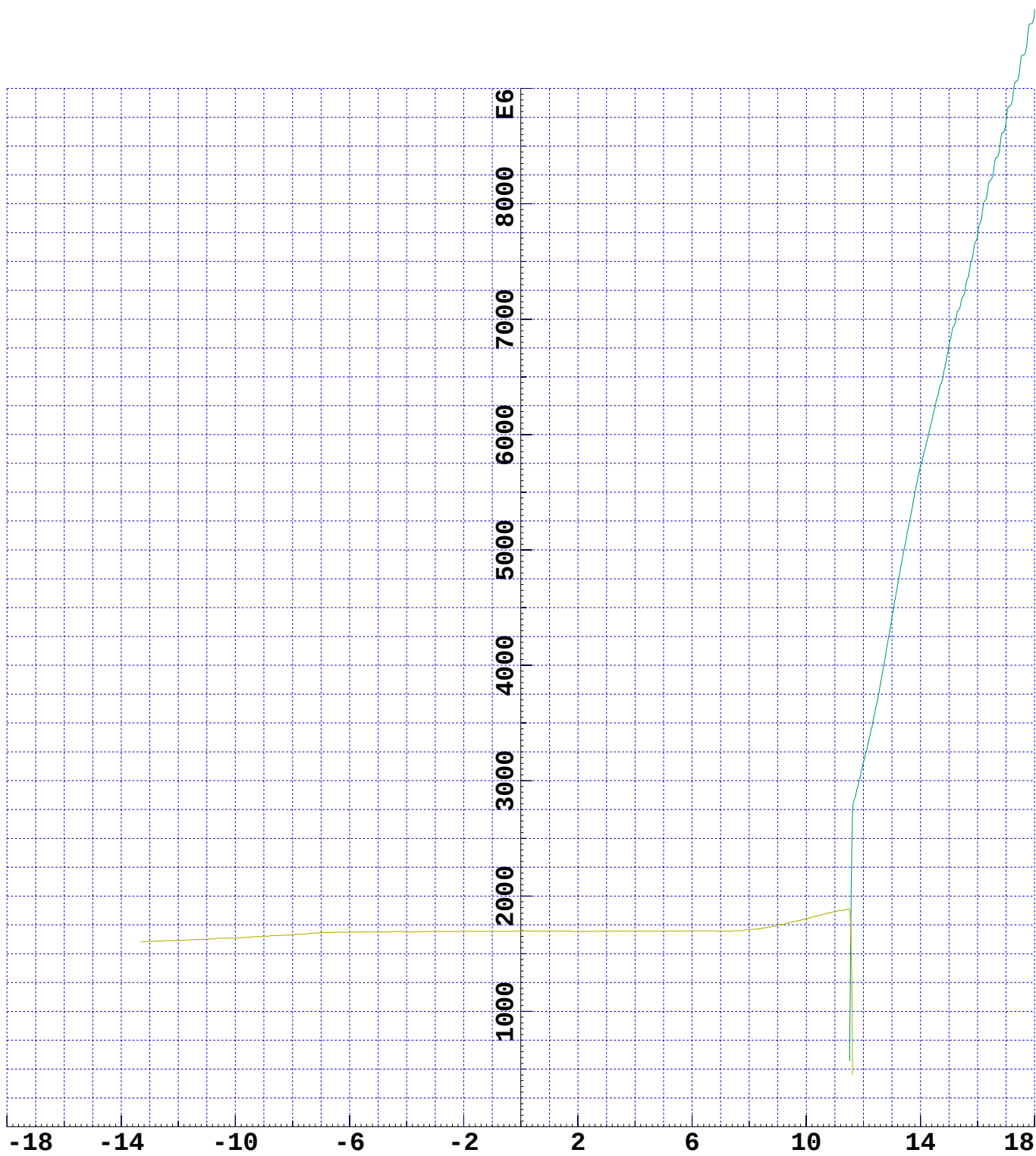


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441
Ident: kpfr_018



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018

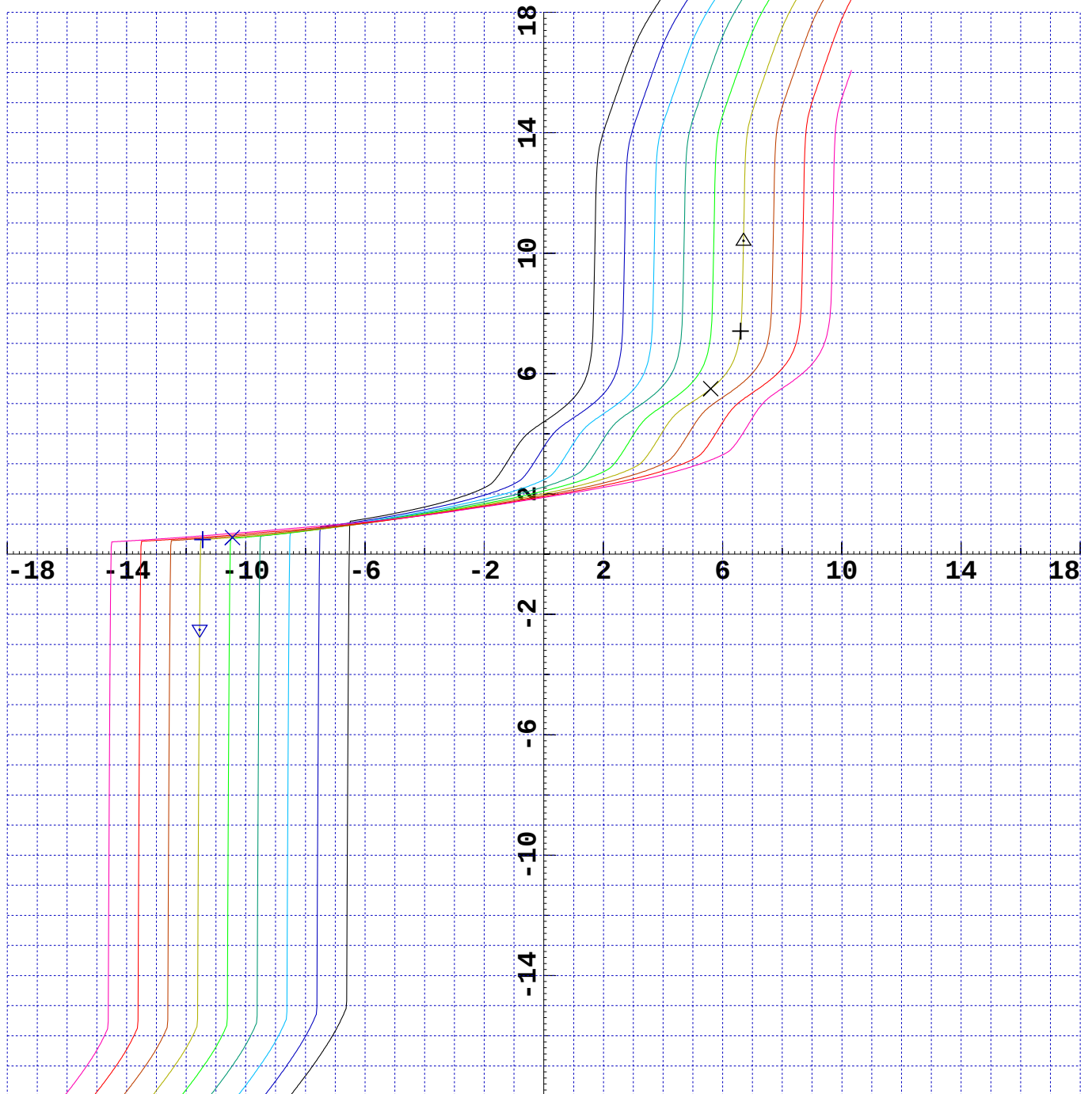
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

× = $\Delta r_E = 5.49$ left curve
 × = $\Delta r_E = 0.55$ right curve
 + = $A0r = 6.60$ 7.41
 + = $A0l = -11.45$.49

possibility of
rolling without
slip

discontinuity
point



$\triangle = 0.1\text{mm}$ right of +discontinuity
 $\nabla = 0.1\text{mm}$ left of -discontinuity

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

Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

rr-rl

Ident: kpfr_018

GENSYS-KPF.1308

Delta_Y=

.1

.5

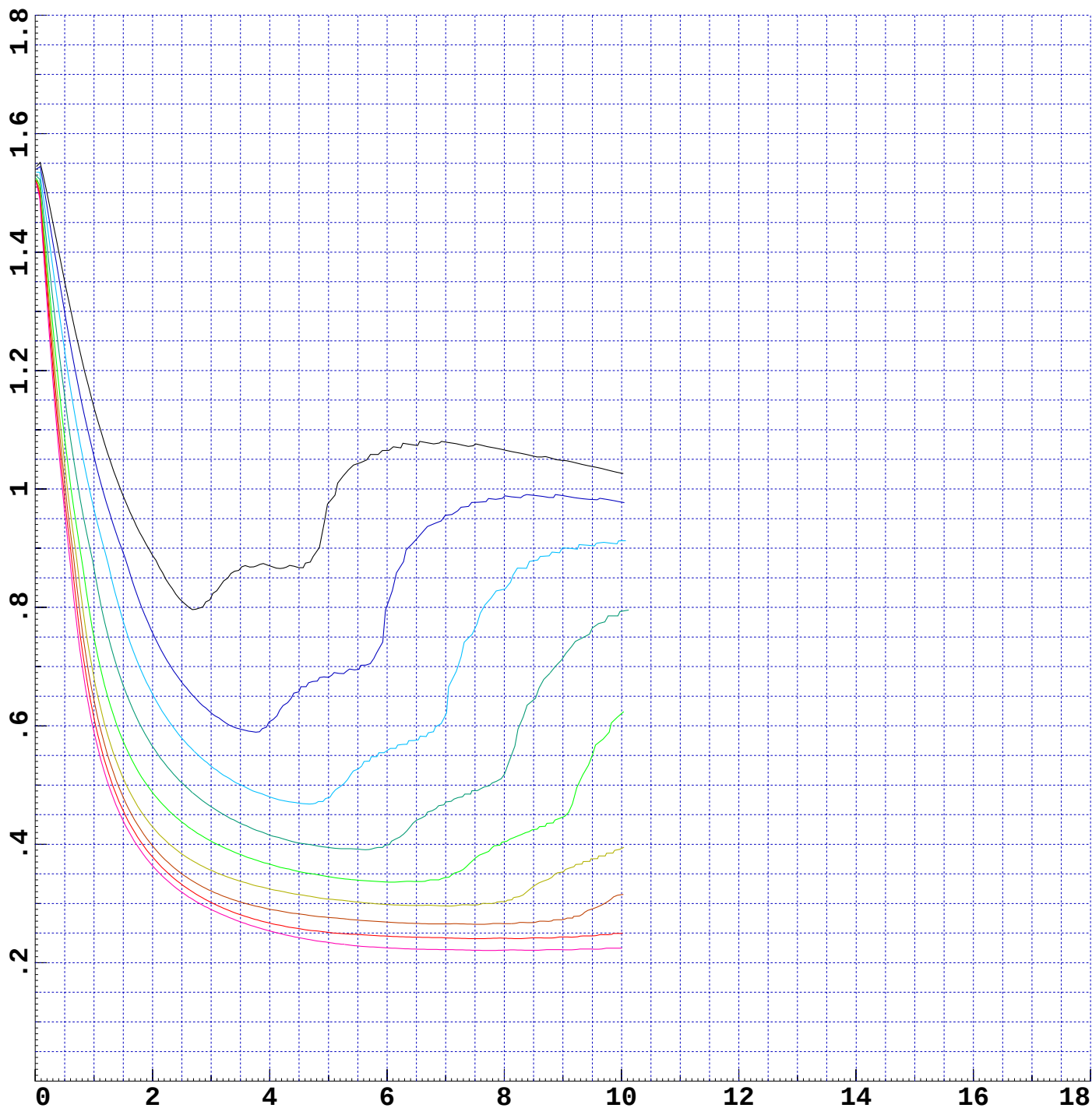
2

3

4

6

Gauge=	1425	—	1.544	1.351	.888	.817	.870	1.065
	1427	—	1.534	1.298	.756	.622	.607	.803
	1429	—	1.521	1.235	.653	.532	.480	.558
	1431	—	1.504	1.157	.565	.463	.415	.399
	1433	—	1.489	1.087	.487	.405	.366	.336
	1435	—	1.480	1.043	.430	.356	.324	.298
	1437	—	1.471	1.011	.397	.321	.290	.269
	1439	—	1.464	.986	.378	.302	.267	.245
	1441	—	1.457	.962	.364	.290	.254	.225



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

Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

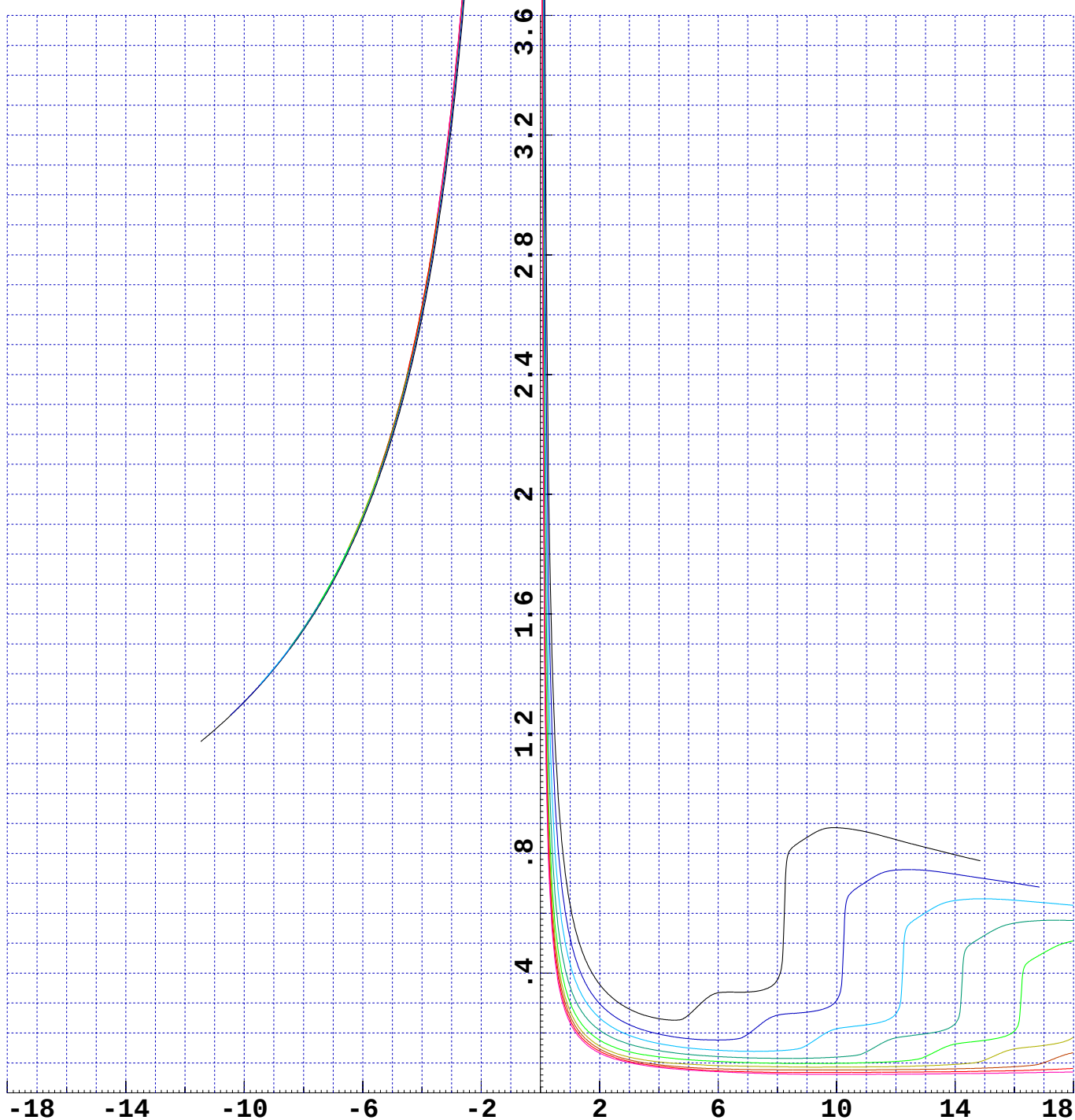
UIC519

Ident: kpfr_018

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	5.570	1.169	.362	.280	.248	.334
	1427	4.592	.965	.298	.228	.197	.176
	1429	3.754	.794	.250	.192	.165	.142
	1431	3.073	.651	.209	.163	.141	.121
	1433	2.664	.560	.176	.137	.120	.105
	1435	2.463	.514	.156	.120	.104	.091
	1437	2.305	.482	.147	.110	.094	.080
	1439	2.191	.459	.139	.105	.089	.074
	1441	2.085	.438	.133	.101	.085	.070



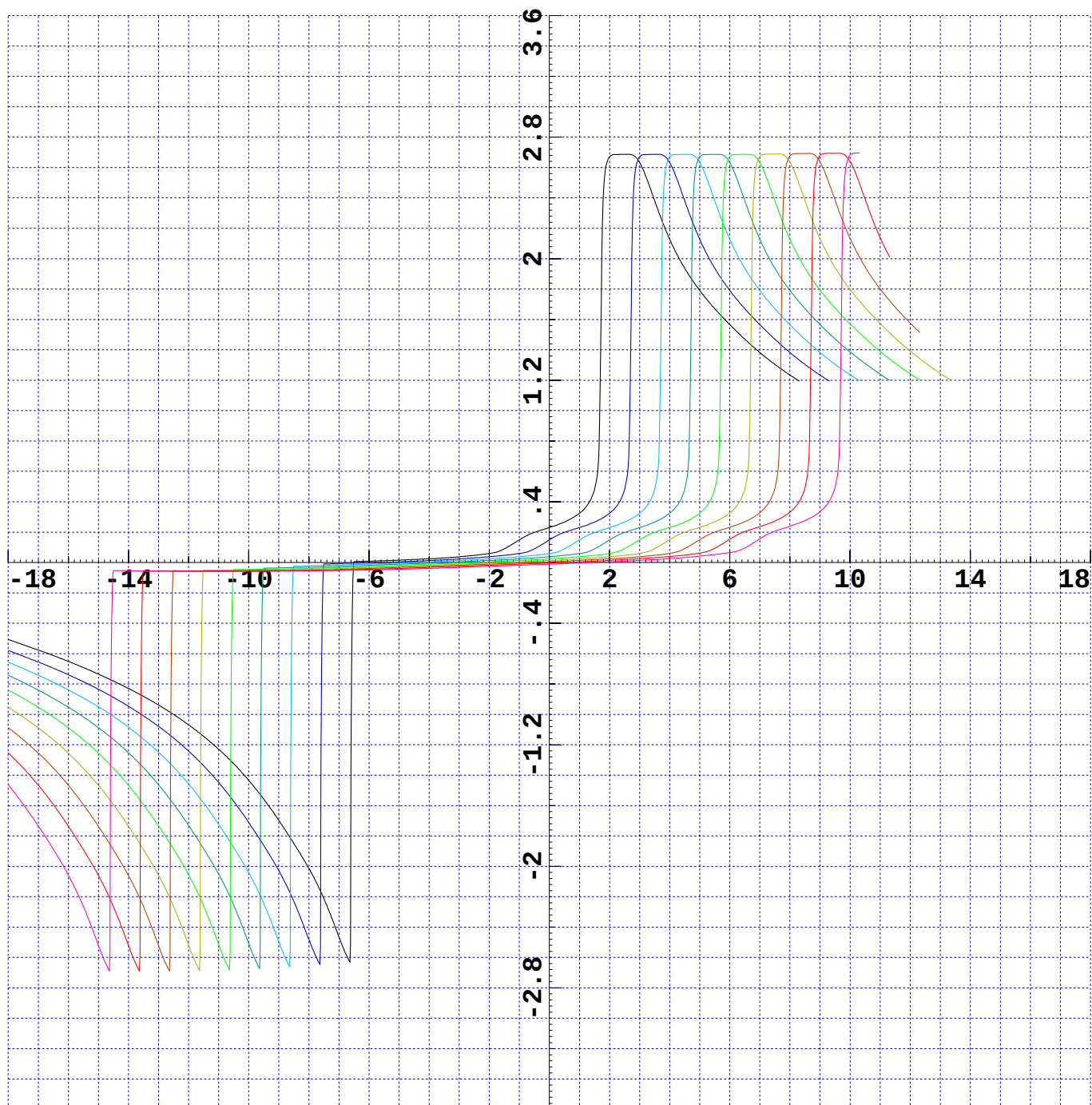
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

lambda

Ident: kpfr_018

GENSYS - KPF . 1308

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

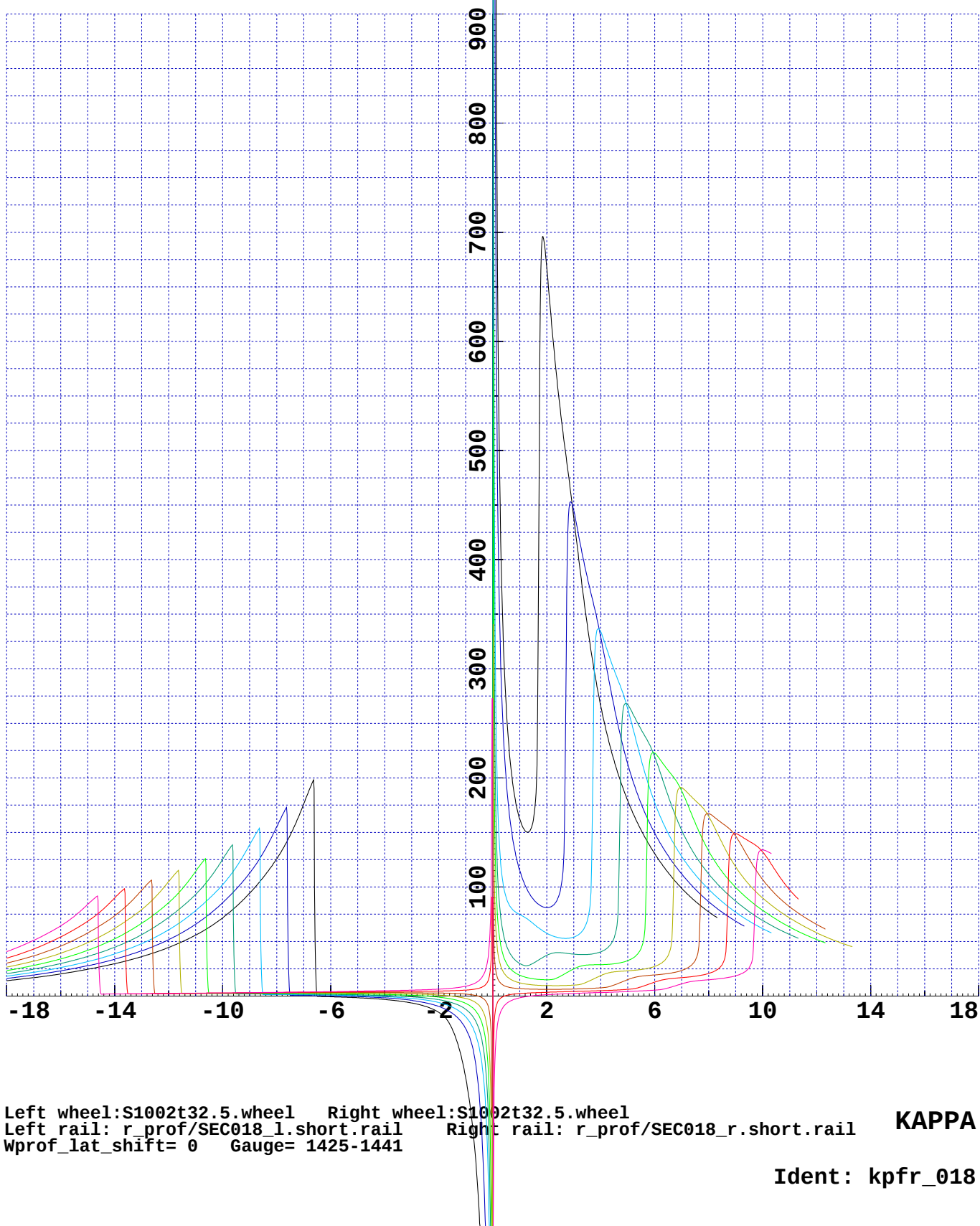


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel tan_Ga
 Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018

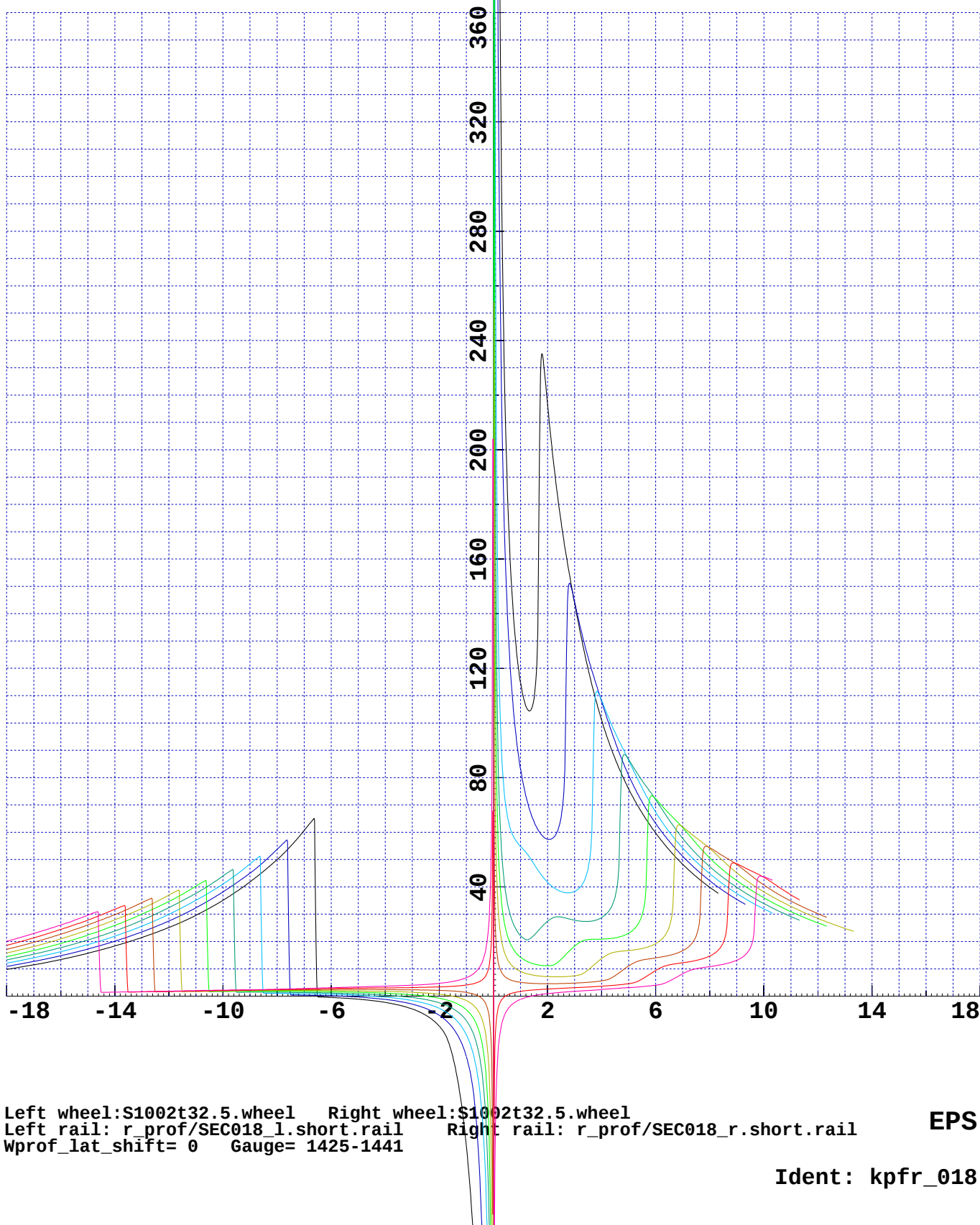
GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	1182.66	266.36	667.74	438.59	265.84	130.47
1427	—	805.65	198.78	81.12	445.19	328.96	149.23
1429	—	314.25	90.41	57.61	54.11	333.91	177.26
1431	—	198.78	47.29	37.38	38.44	40.61	219.35
1433	—	127.09	30.69	14.98	24.96	28.85	222.66
1435	—	72.16	18.62	9.61	10.02	18.75	27.14
1437	—	26.55	8.87	6.15	6.45	7.56	19.36
1439	—	-13.46	.50	3.47	4.16	4.90	12.77
1441	—	-50.14	-7.05	1.26	2.40	3.26	5.43



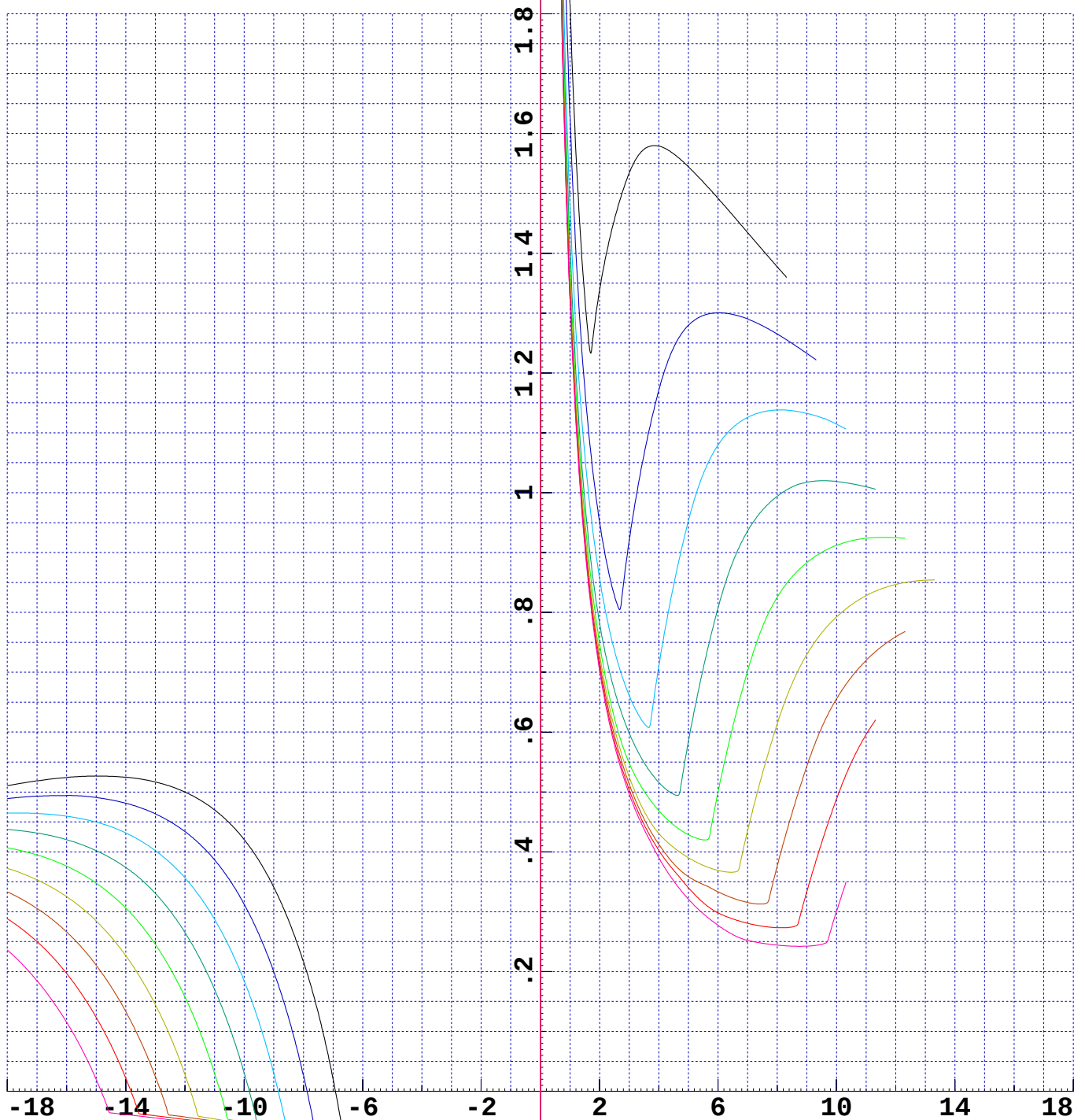
GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	854.59	191.25	216.54	143.78	101.01	59.72
1427	—	590.43	144.72	57.46	144.38	107.85	63.22
1429	—	233.42	66.94	41.68	38.33	108.31	67.37
1431	—	147.99	35.18	27.45	27.81	28.76	71.93
1433	—	94.74	22.86	11.13	18.33	20.88	72.24
1435	—	53.84	13.89	7.16	7.45	13.77	19.22
1437	—	19.82	6.62	4.58	4.81	5.62	14.01
1439	—	-10.05	.37	2.59	3.10	3.65	9.38
1441	—	-37.47	-5.27	.94	1.79	2.43	4.04



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	15.71	3.35	1.34	1.53	1.58	1.49
1427	—	14.18	3.02	.95	.92	1.17	1.30
1429	—	13.43	2.79	.86	.66	.71	1.08
1431	—	13.08	2.71	.78	.60	.52	.81
1433	—	12.84	2.65	.75	.55	.47	.50
1435	—	12.68	2.61	.73	.53	.43	.37
1437	—	12.58	2.59	.72	.51	.41	.33
1439	—	12.53	2.57	.71	.50	.40	.30
1441	—	12.53	2.57	.70	.50	.39	.28



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel RollAC
 Left rail: r_prof/SEC018_l.short.rail Right rail: r_prof/SEC018_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_018