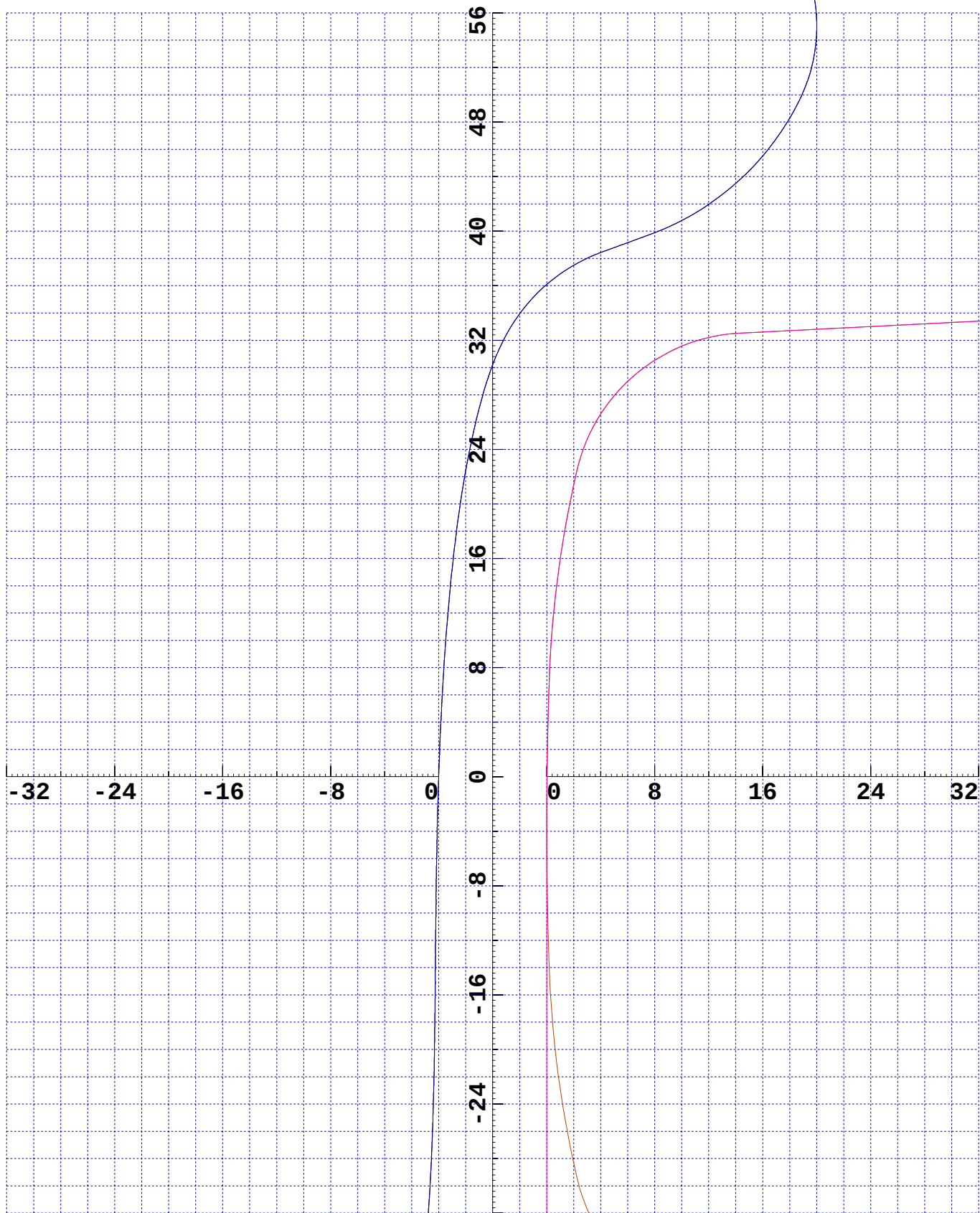
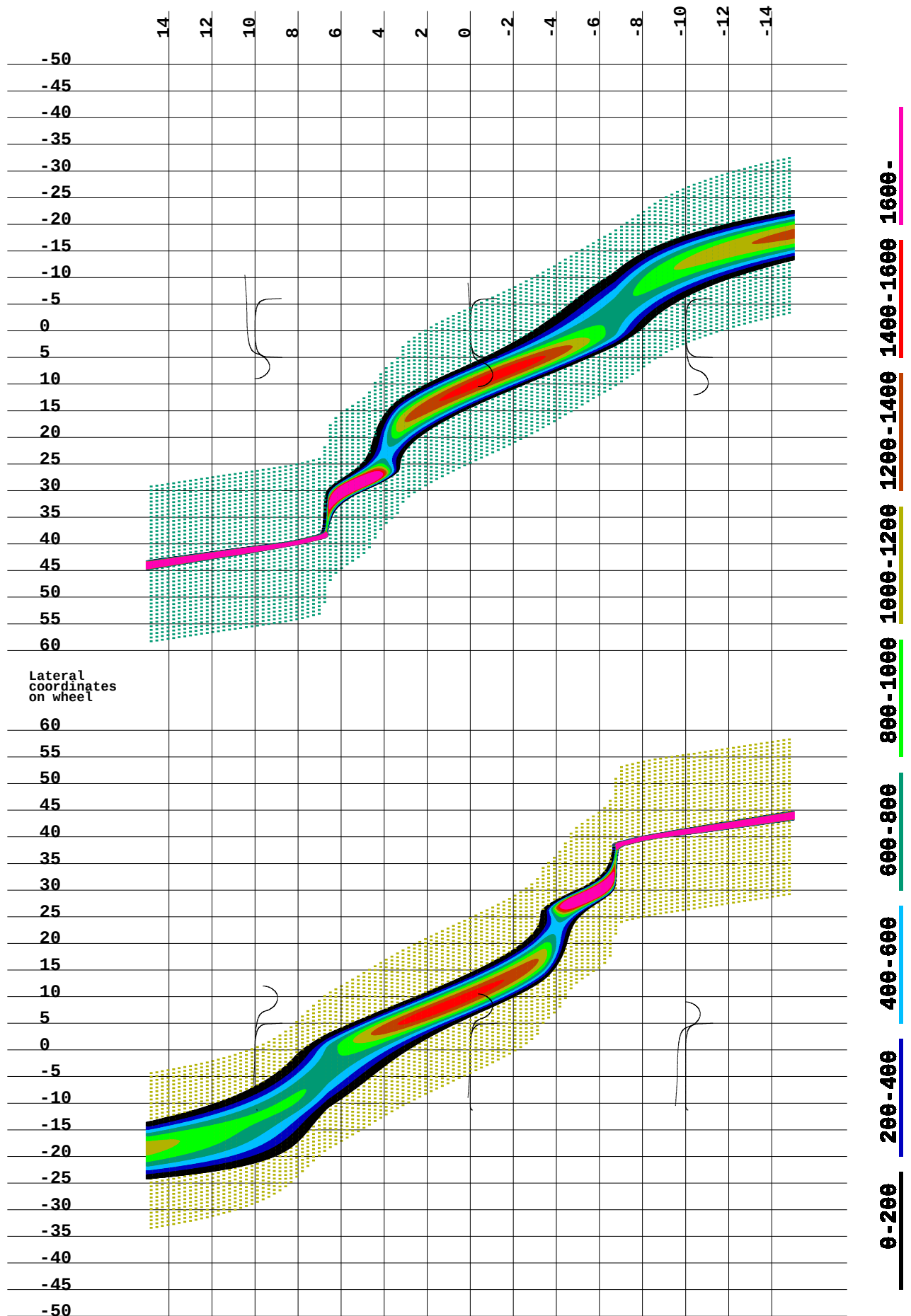


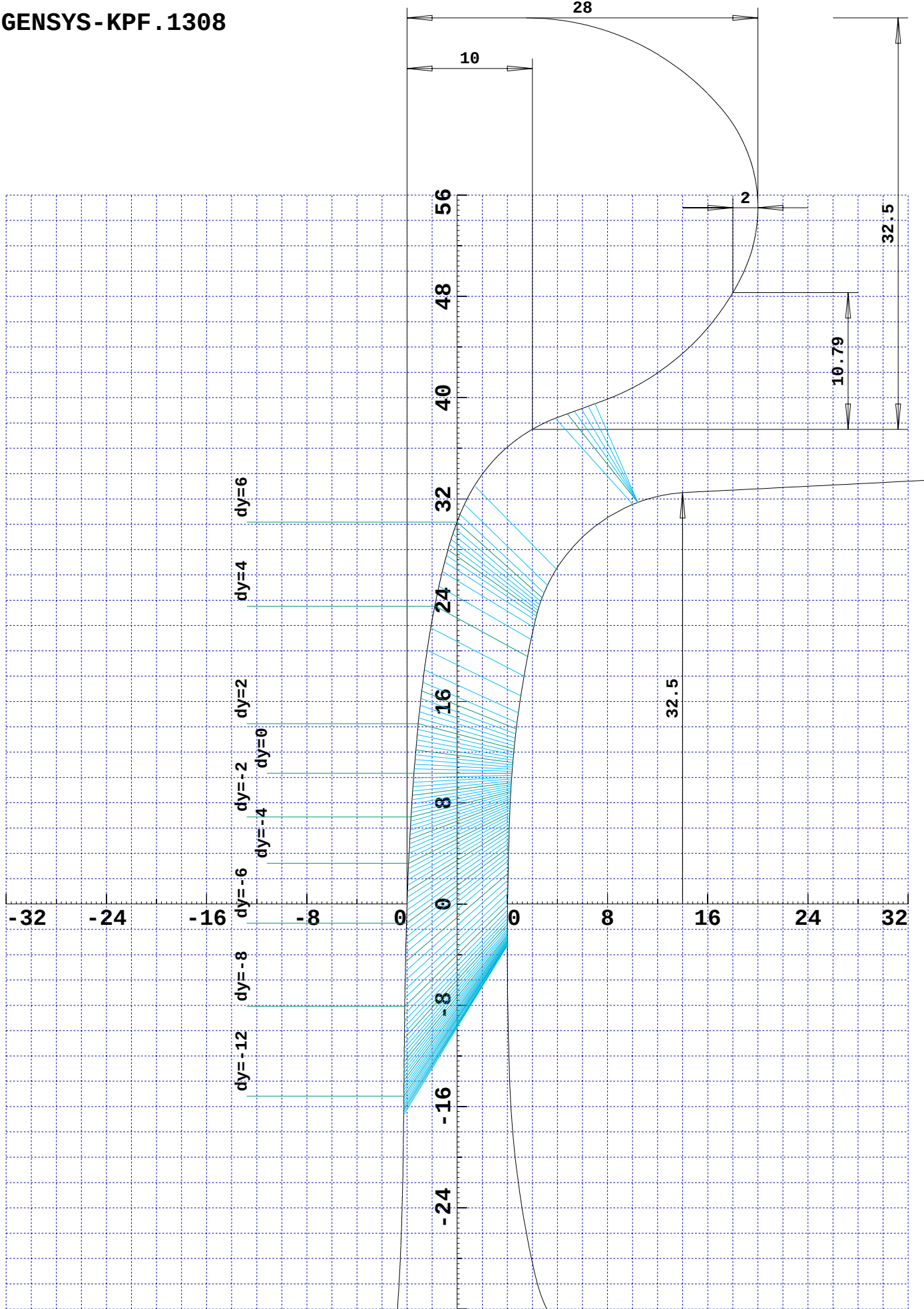
- Right wheel
- Left wheel
- Right rail
- Left rail



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

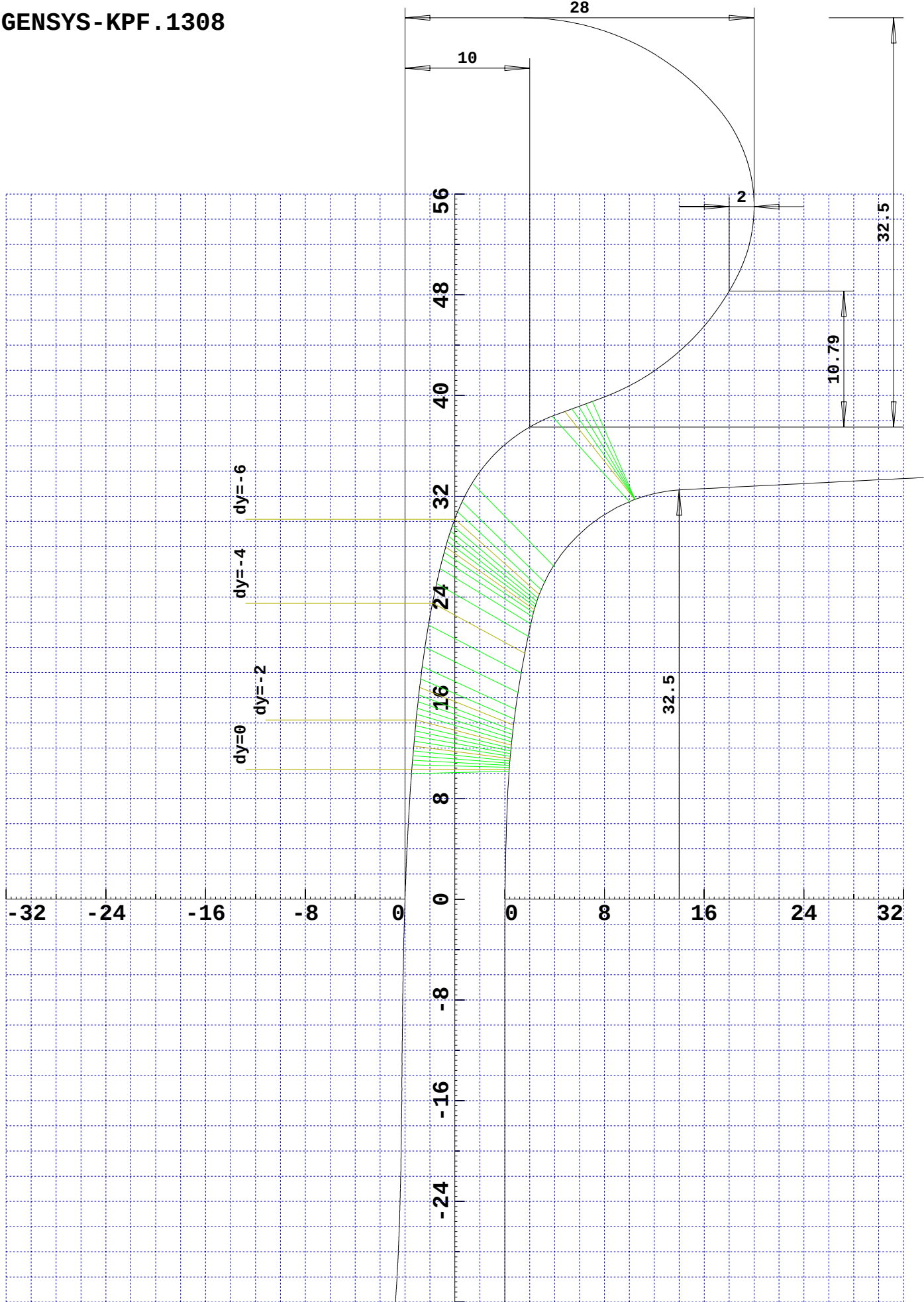
Ident: kpfr_016





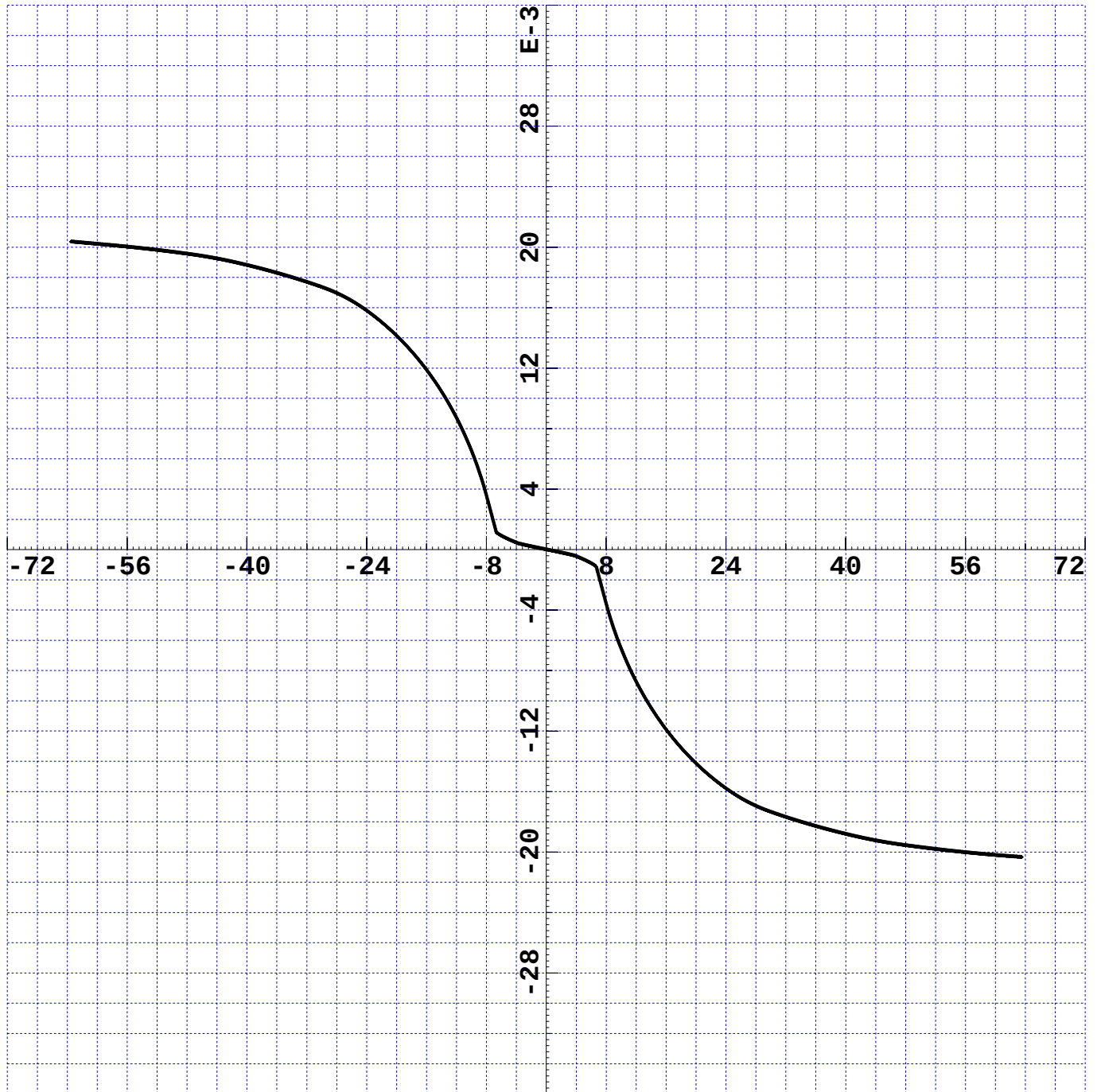
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel CONNr
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016



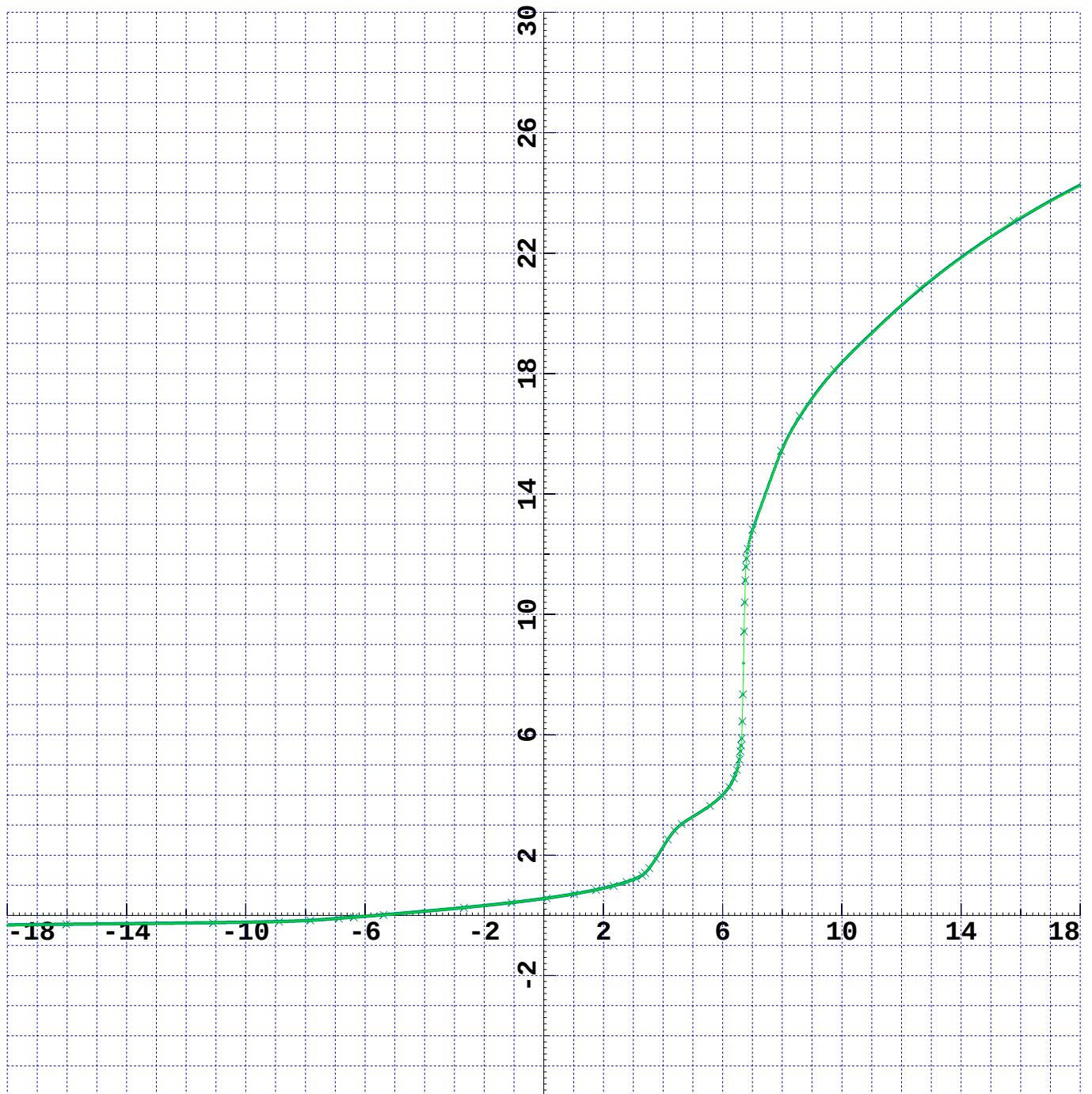
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel CONN1
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flaxl**
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

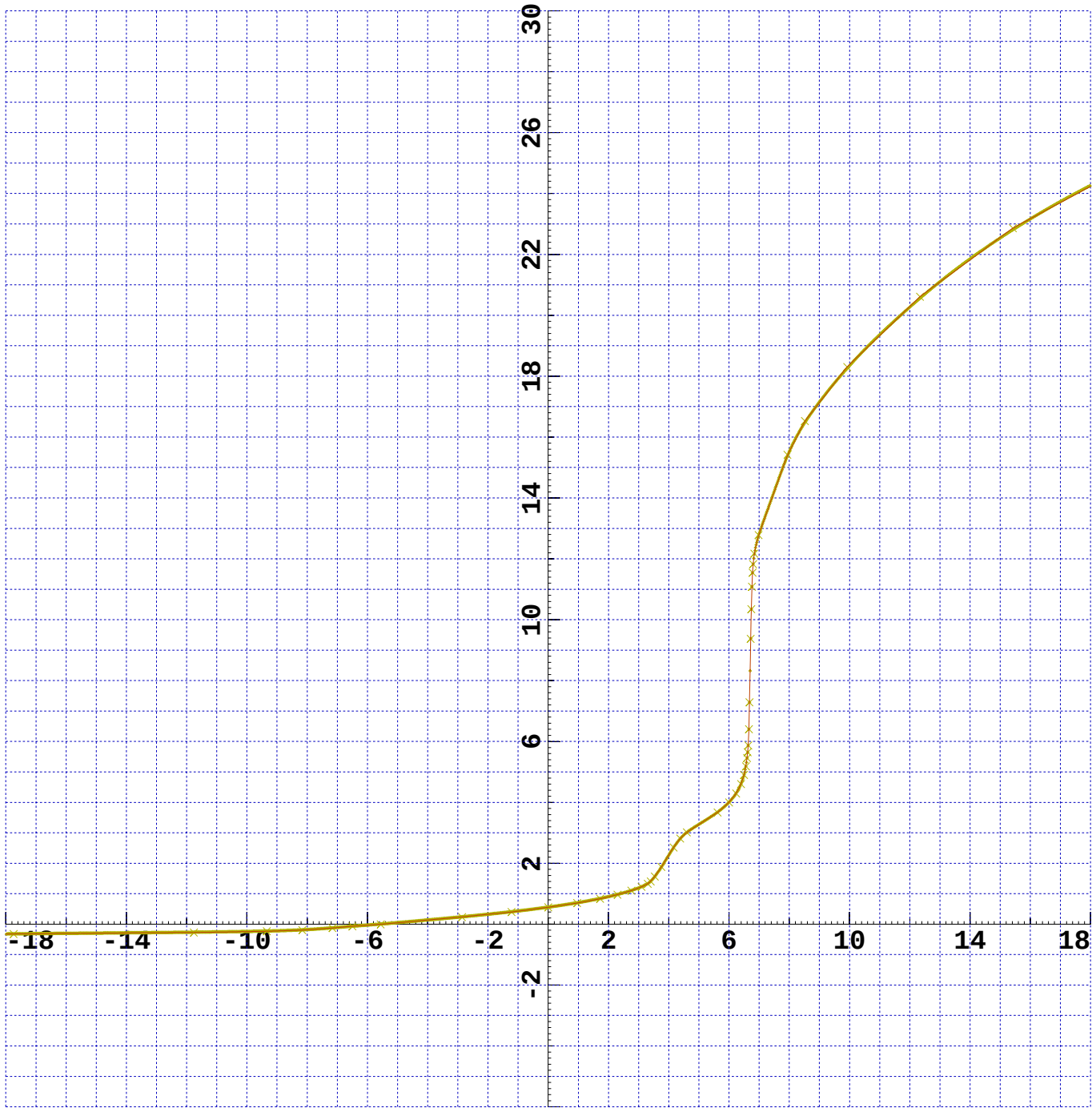
Ident: kpfr_016

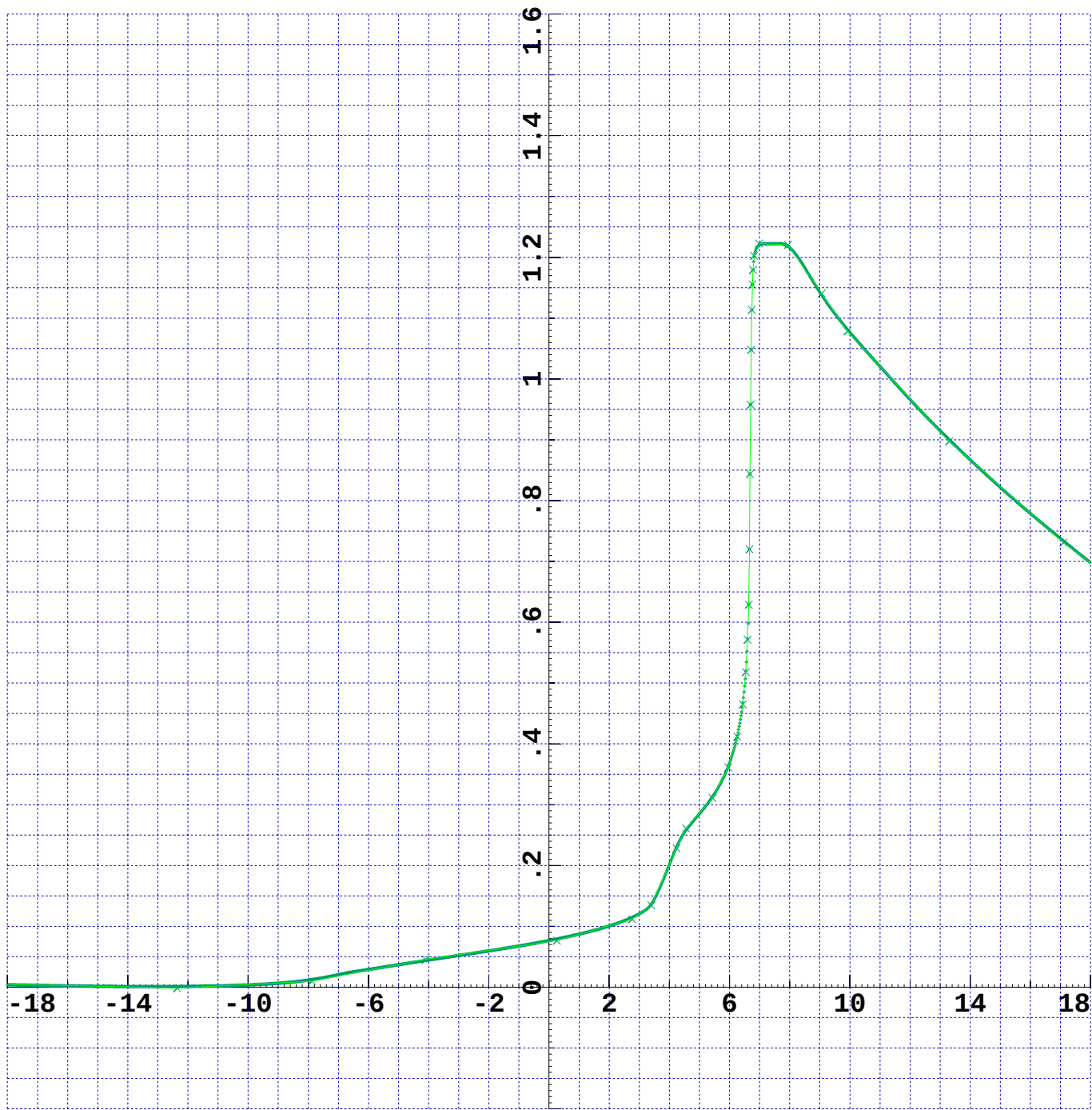


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

DRFNr

Ident: kpfr_016





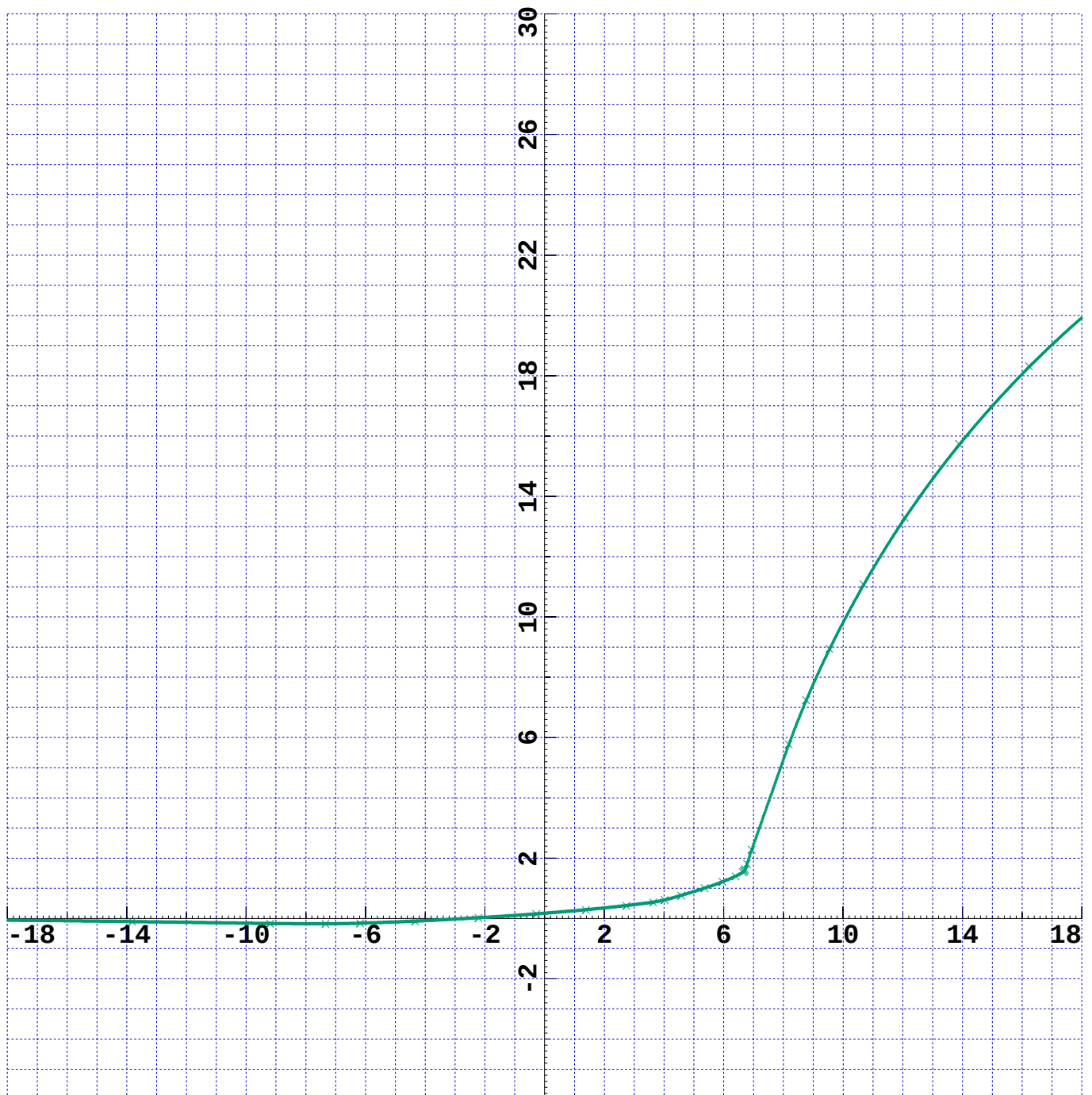
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **GAMFNr**
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel GAMFN1
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

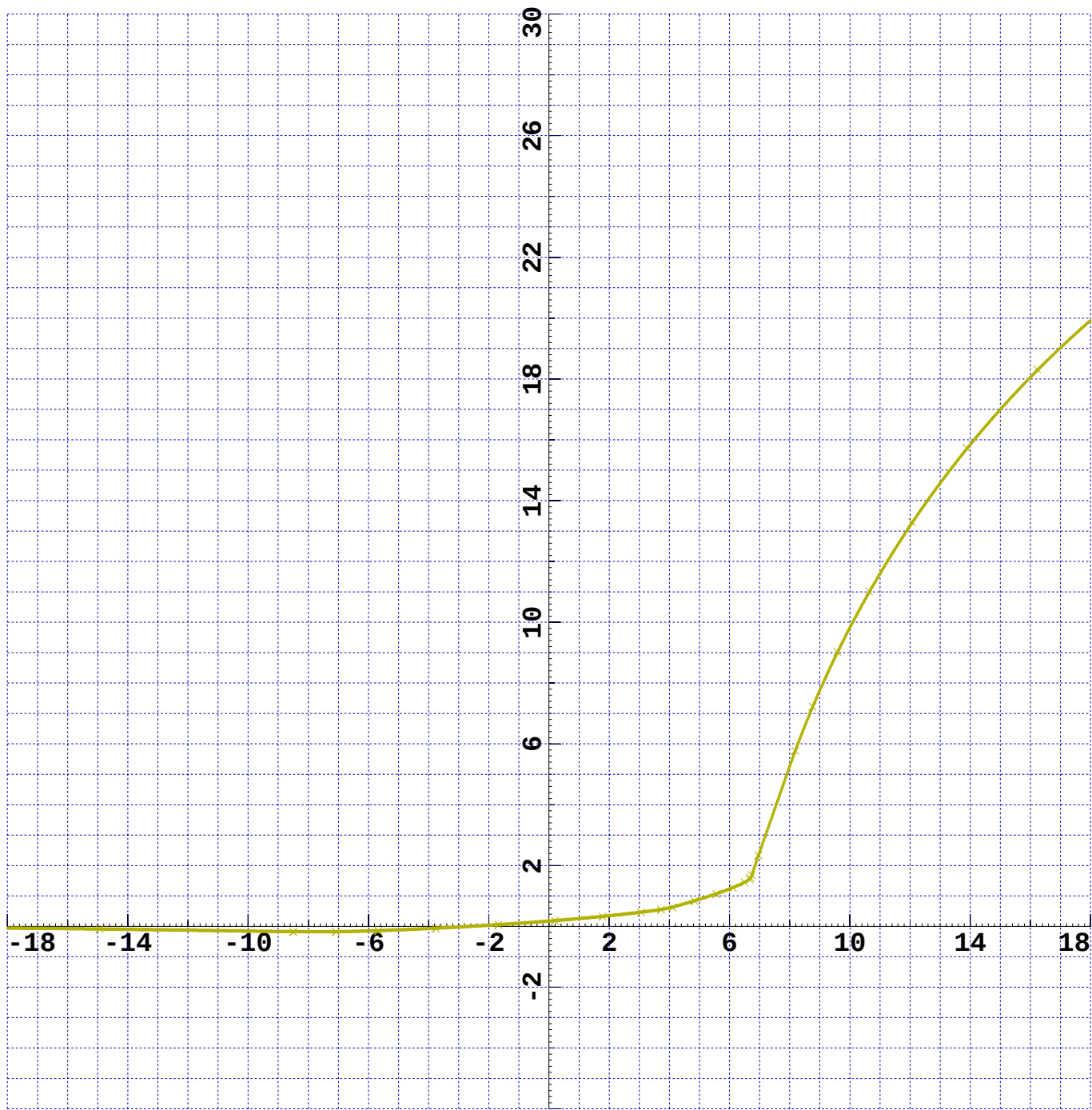
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFNr

Ident: kpfr_016



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail ZFN1
wprof_lat_shift= 0 Gauge= 1425-1441

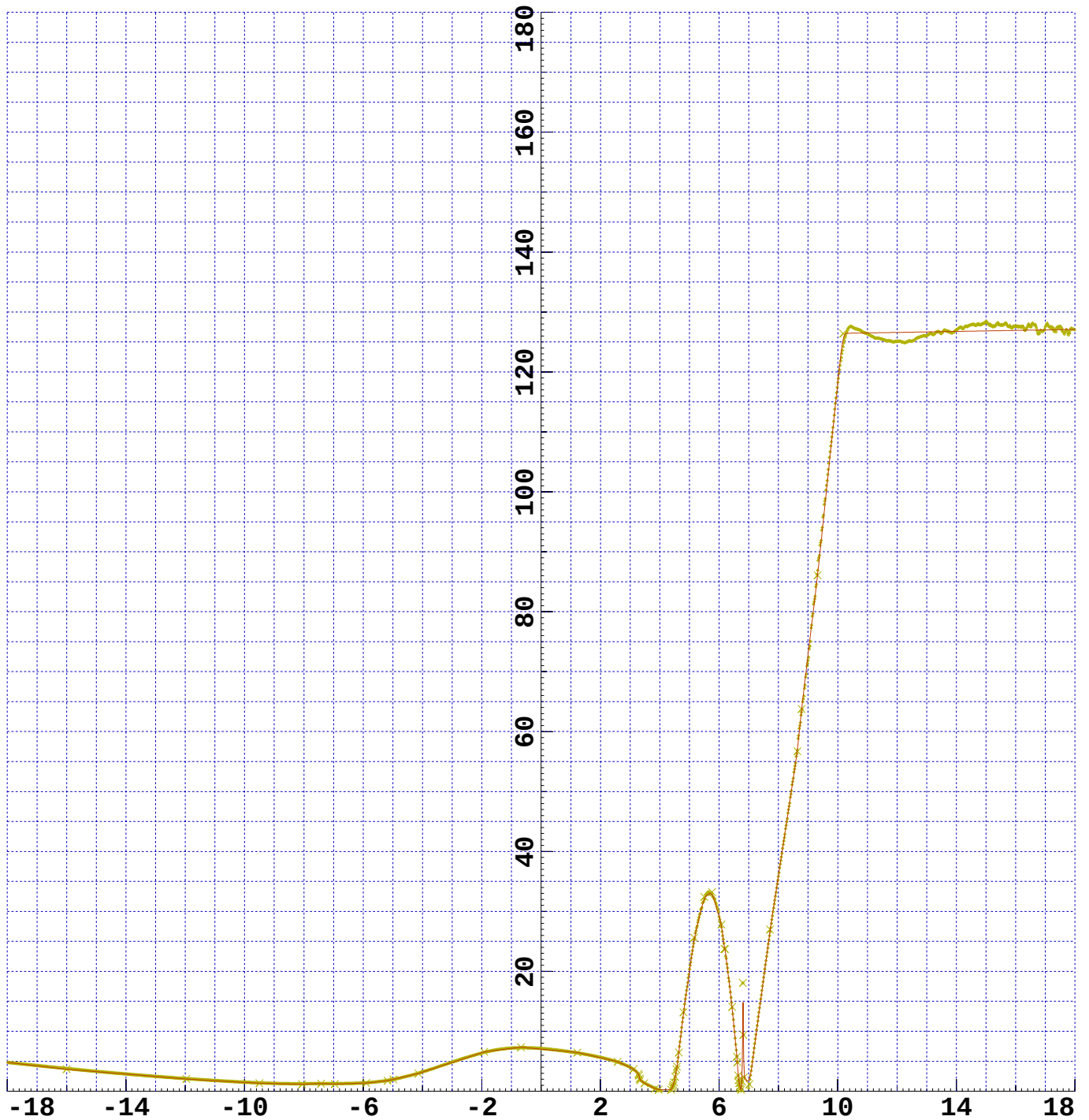
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

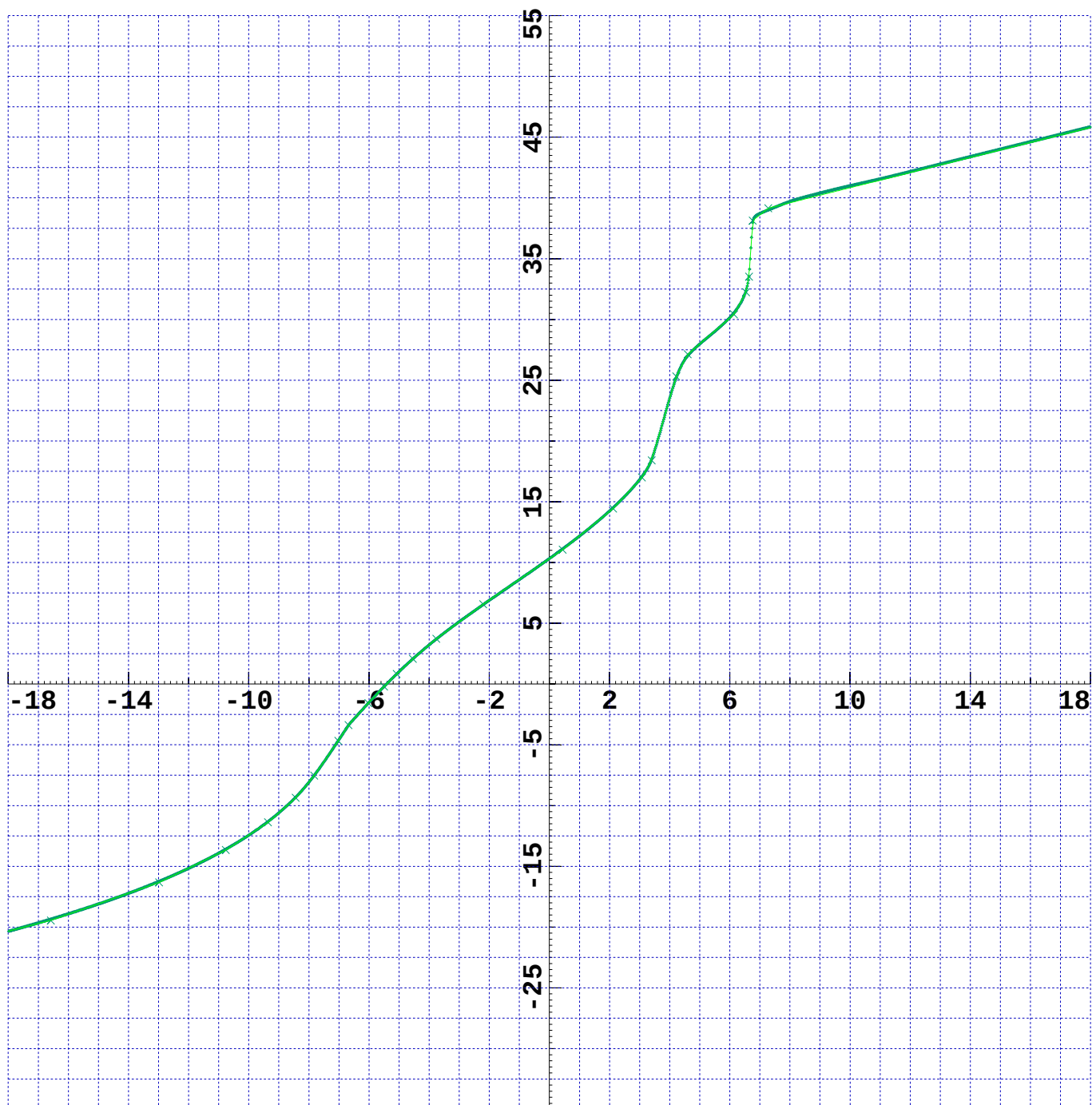
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFN1

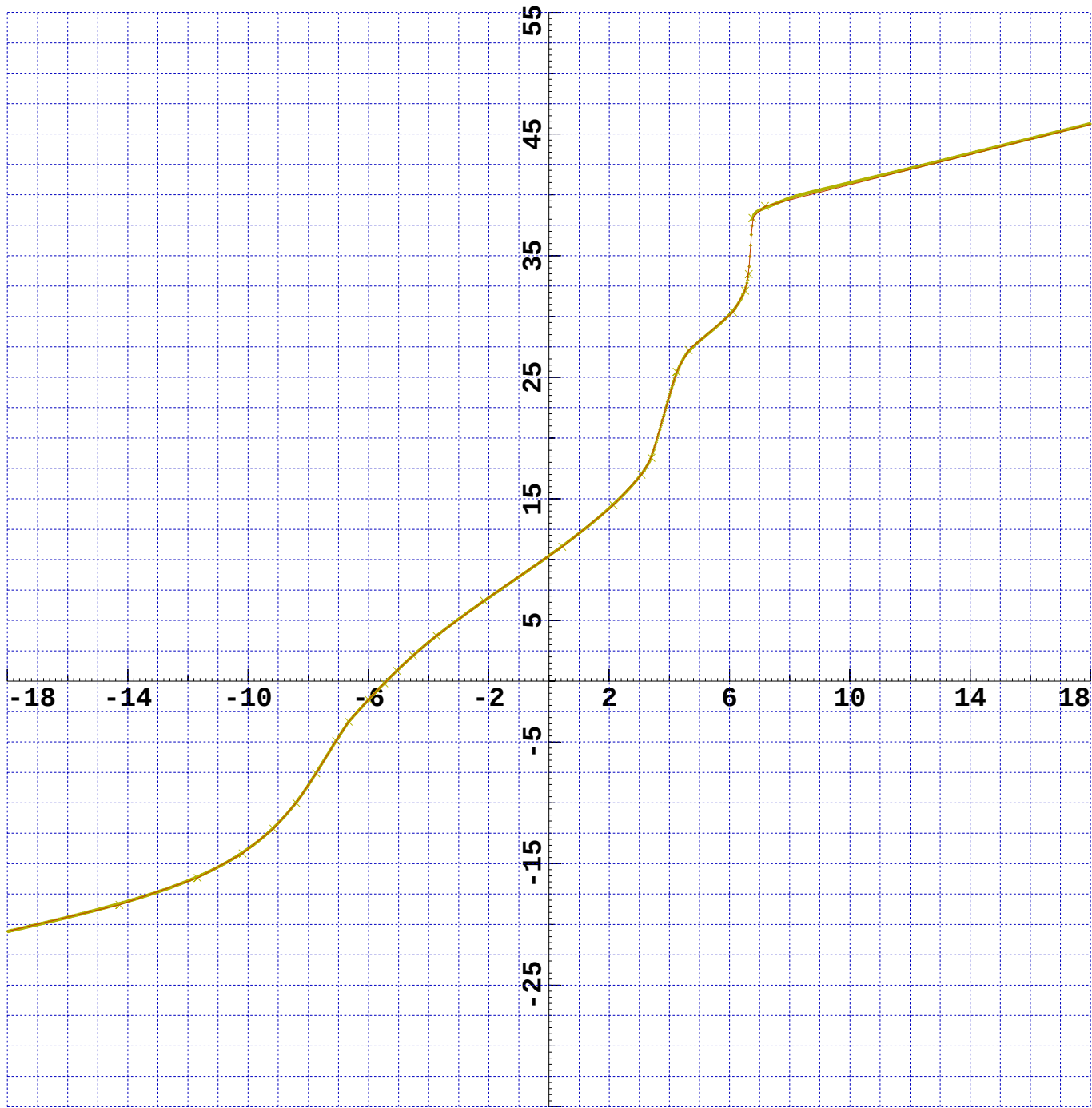
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

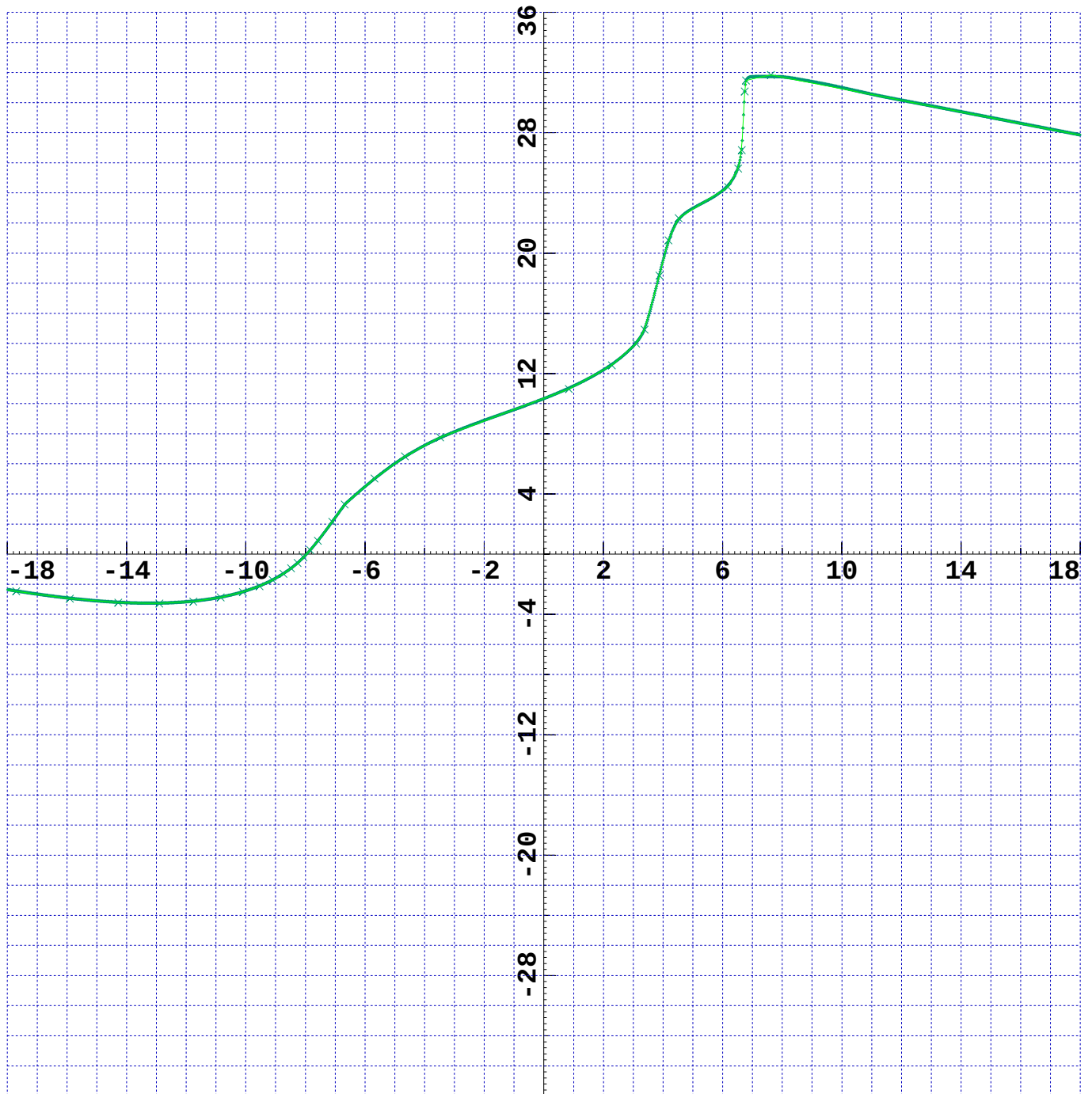
POSWr

Ident: kpfr_016



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel POSW1
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

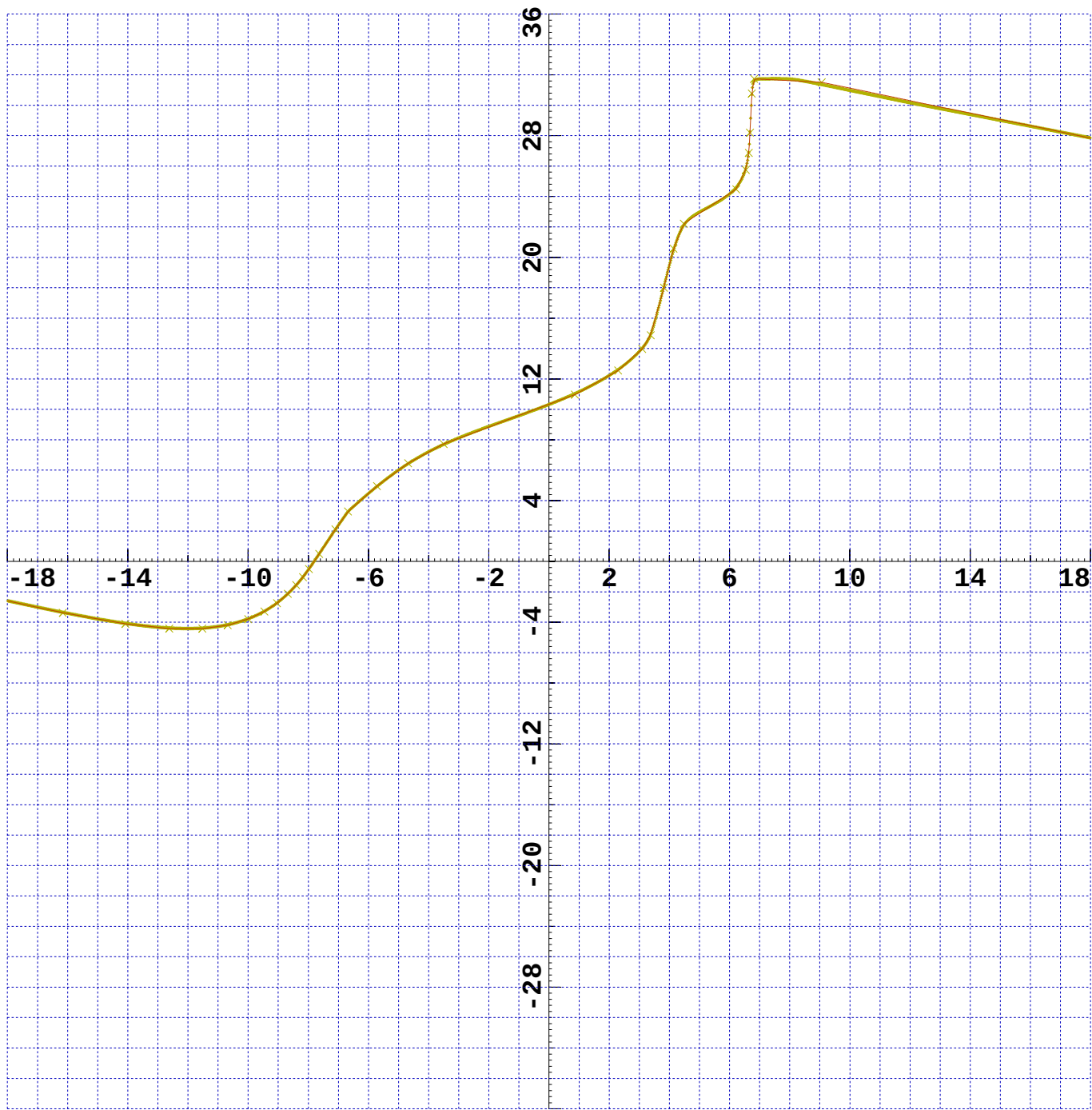
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

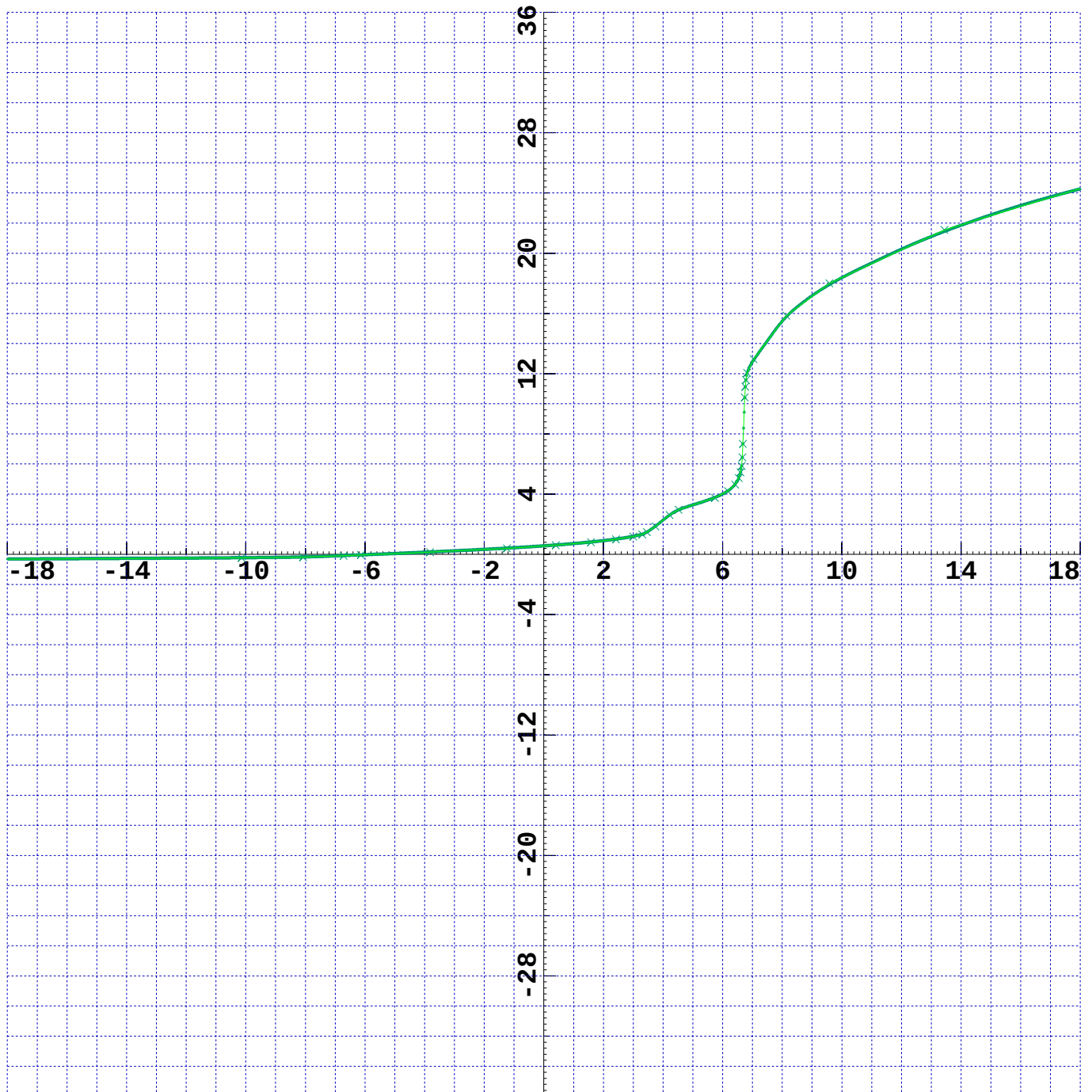
POSRR

Ident: kpfr_016



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel POSR1
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

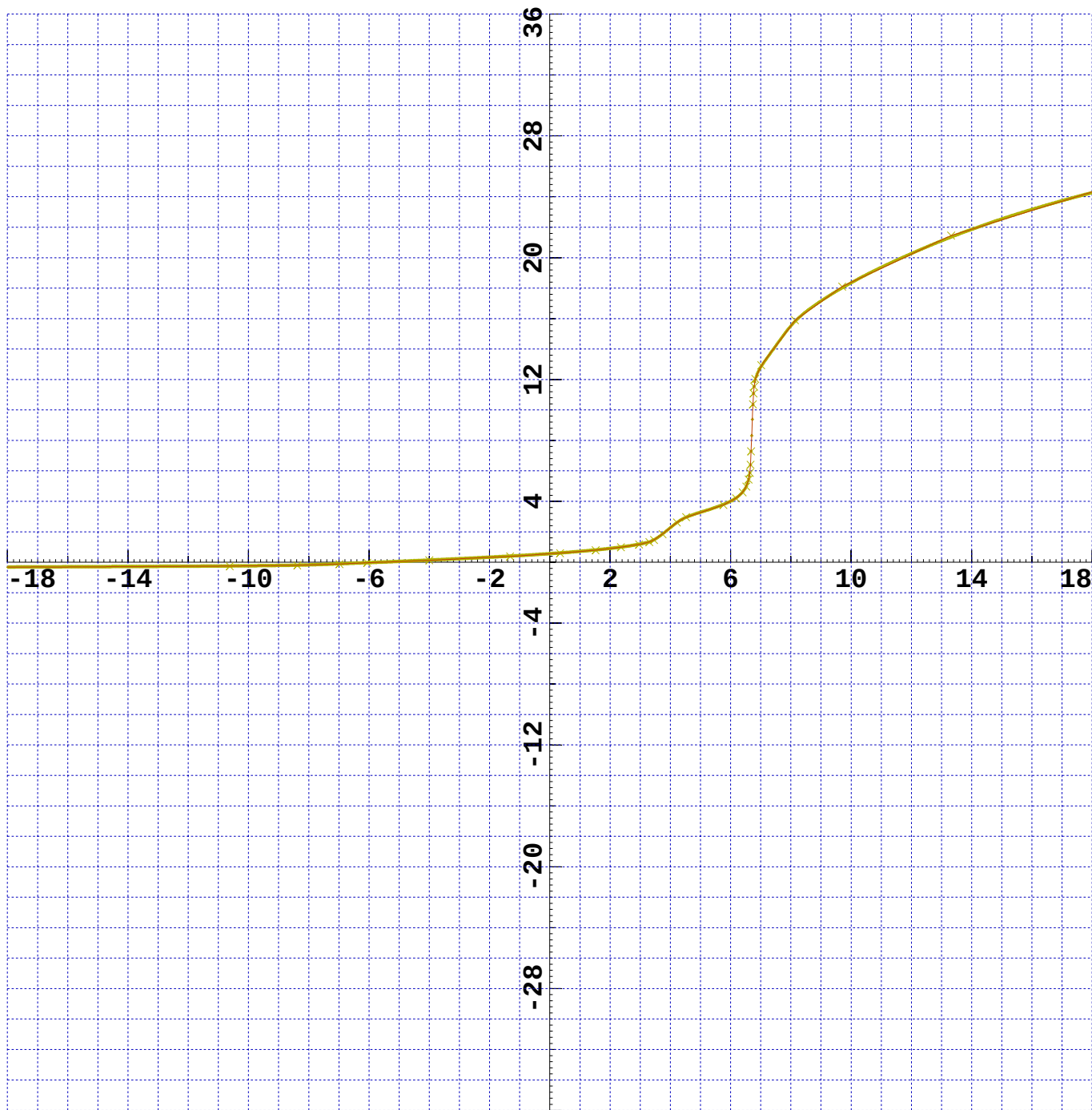
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

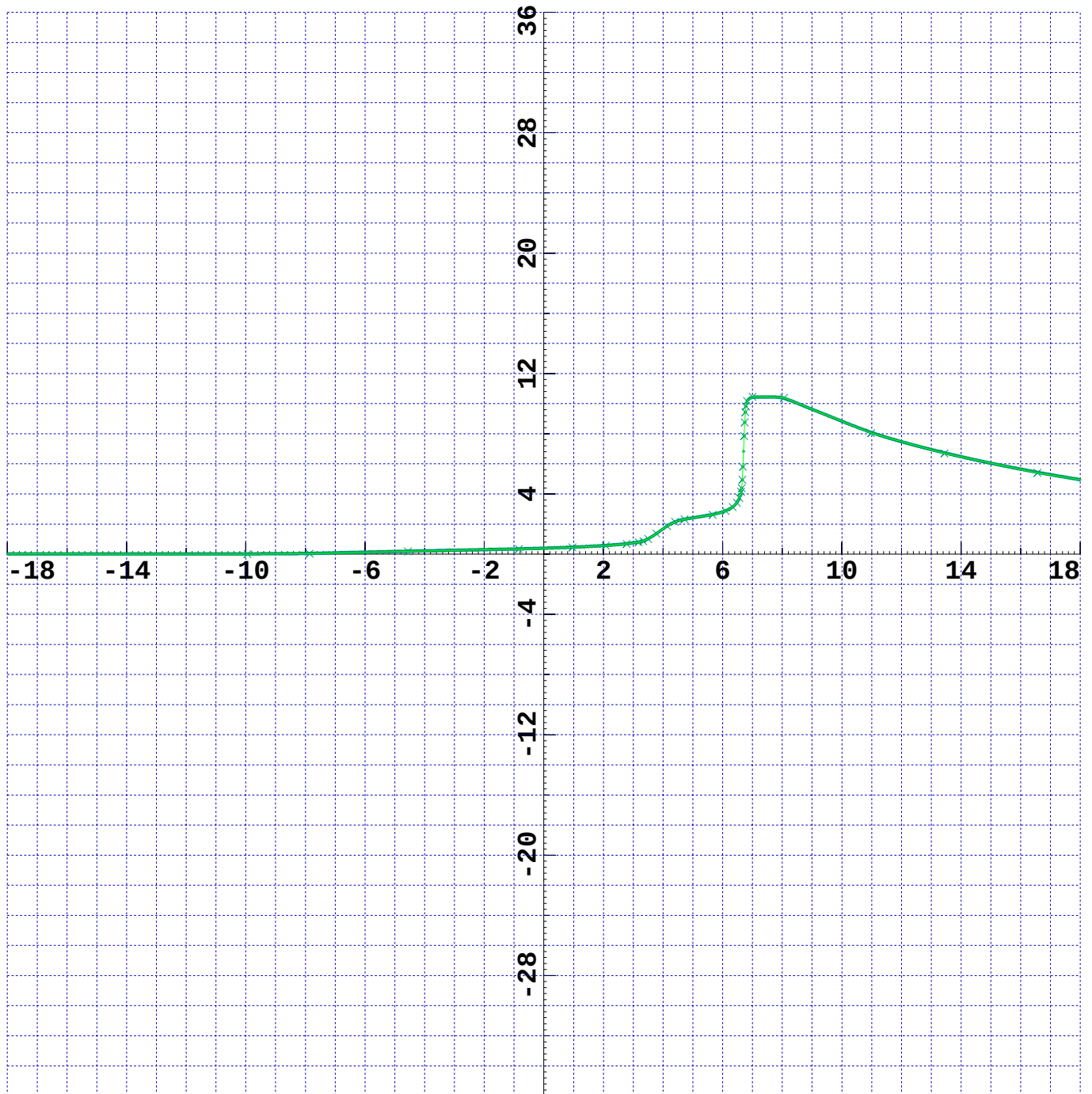
Ident: kpfr_016



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZW1

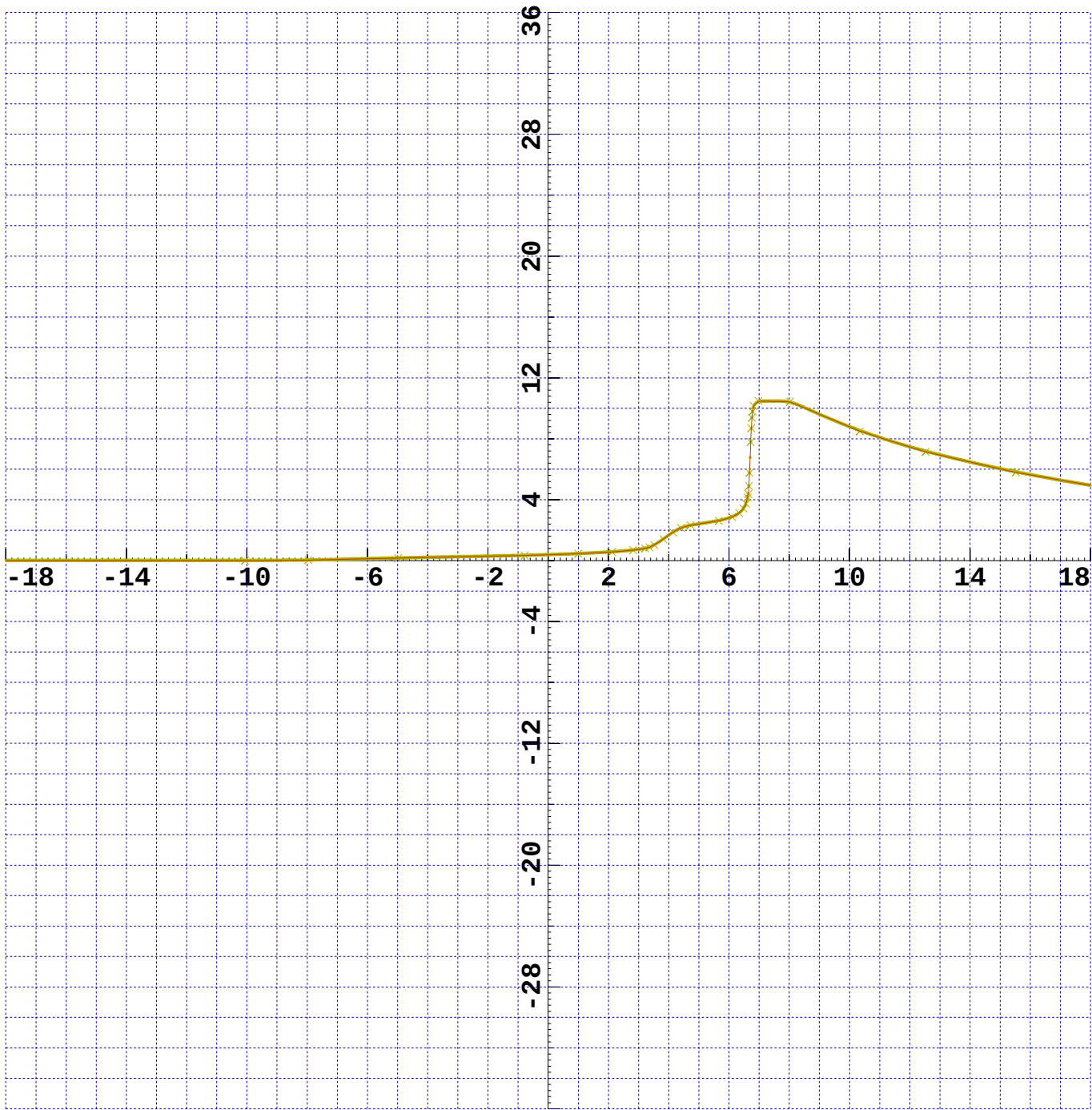
Ident: kpfr_016

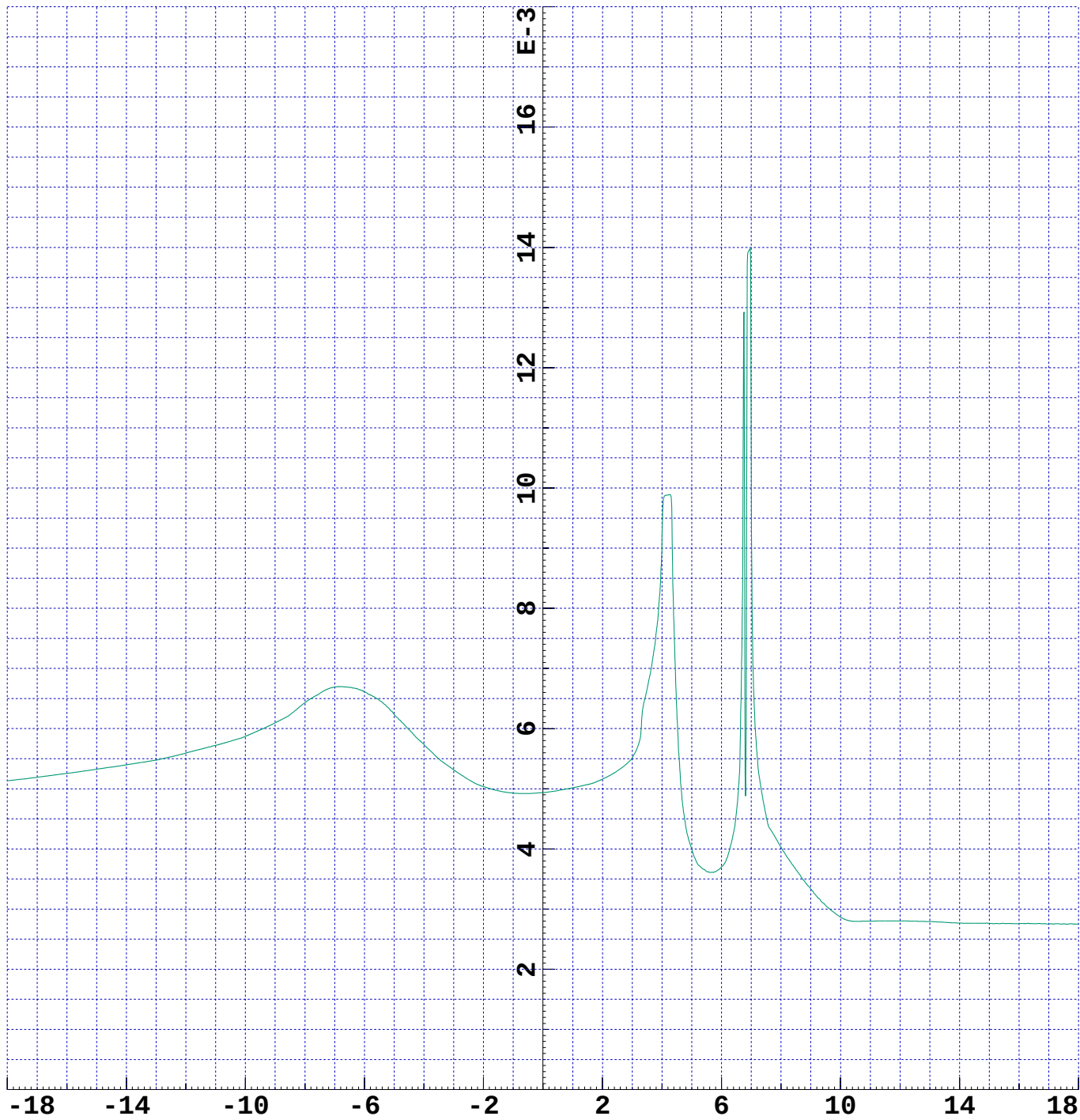


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

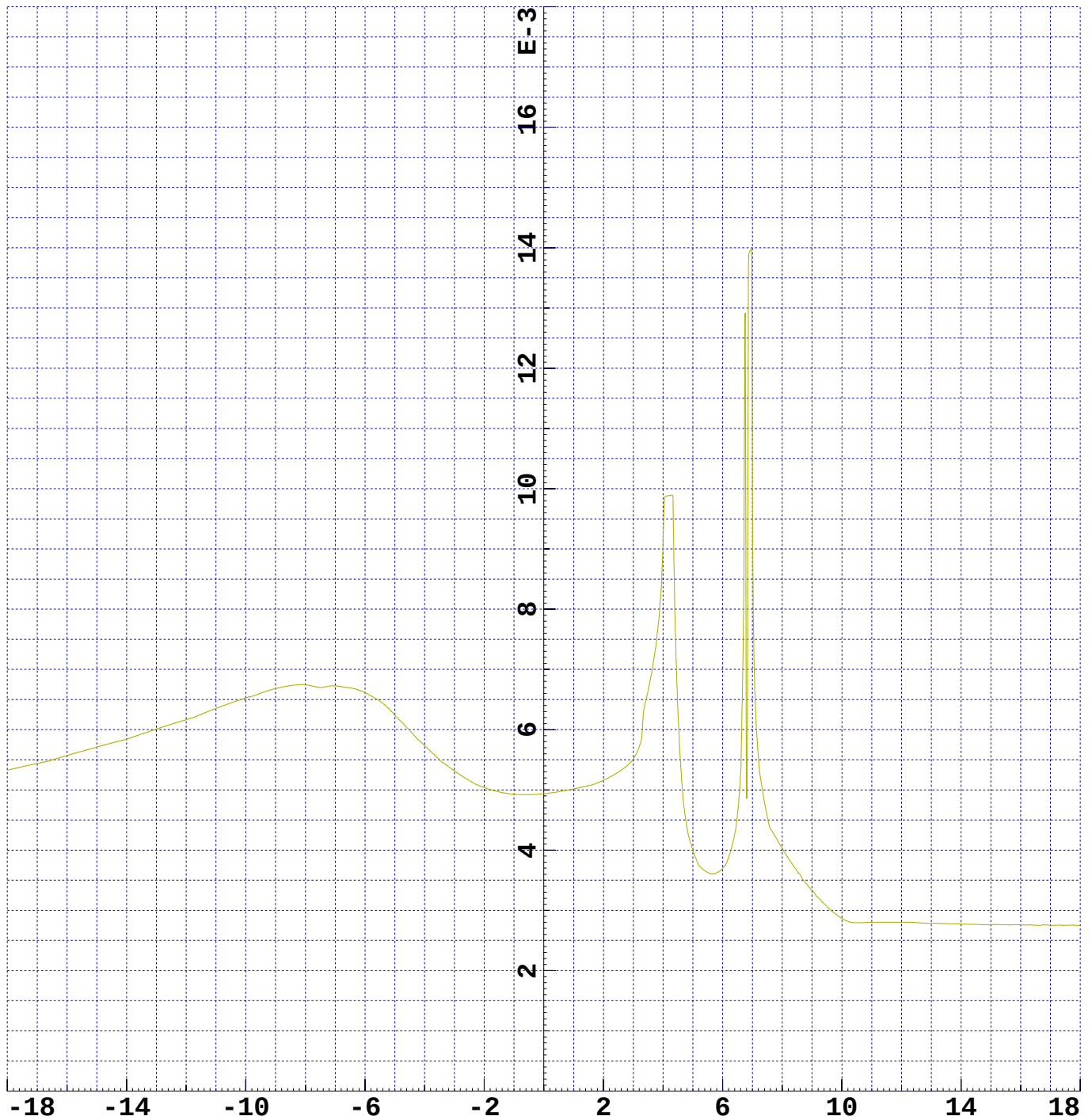
Ident: kpfr_016





Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel C_r
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

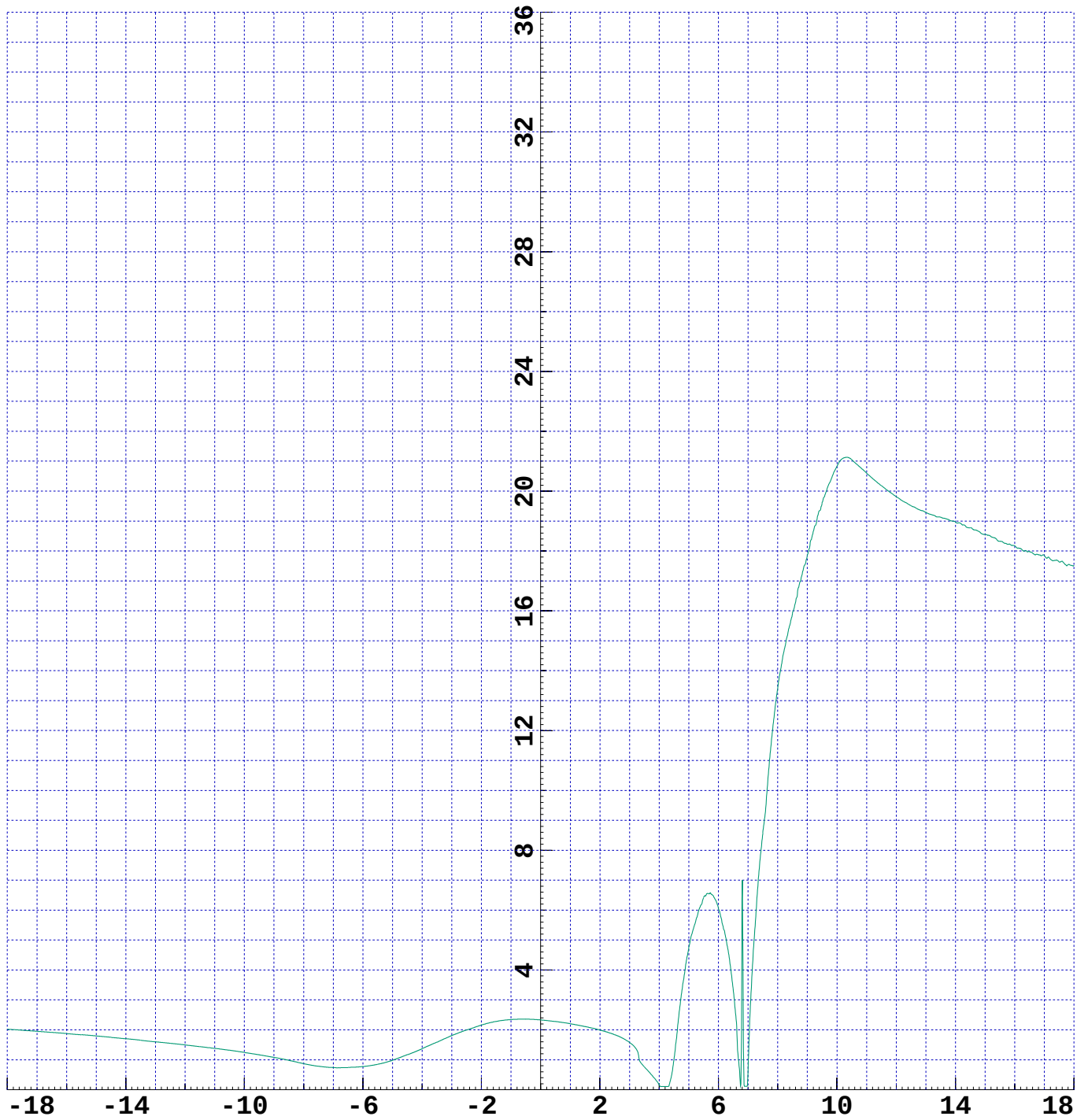
Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

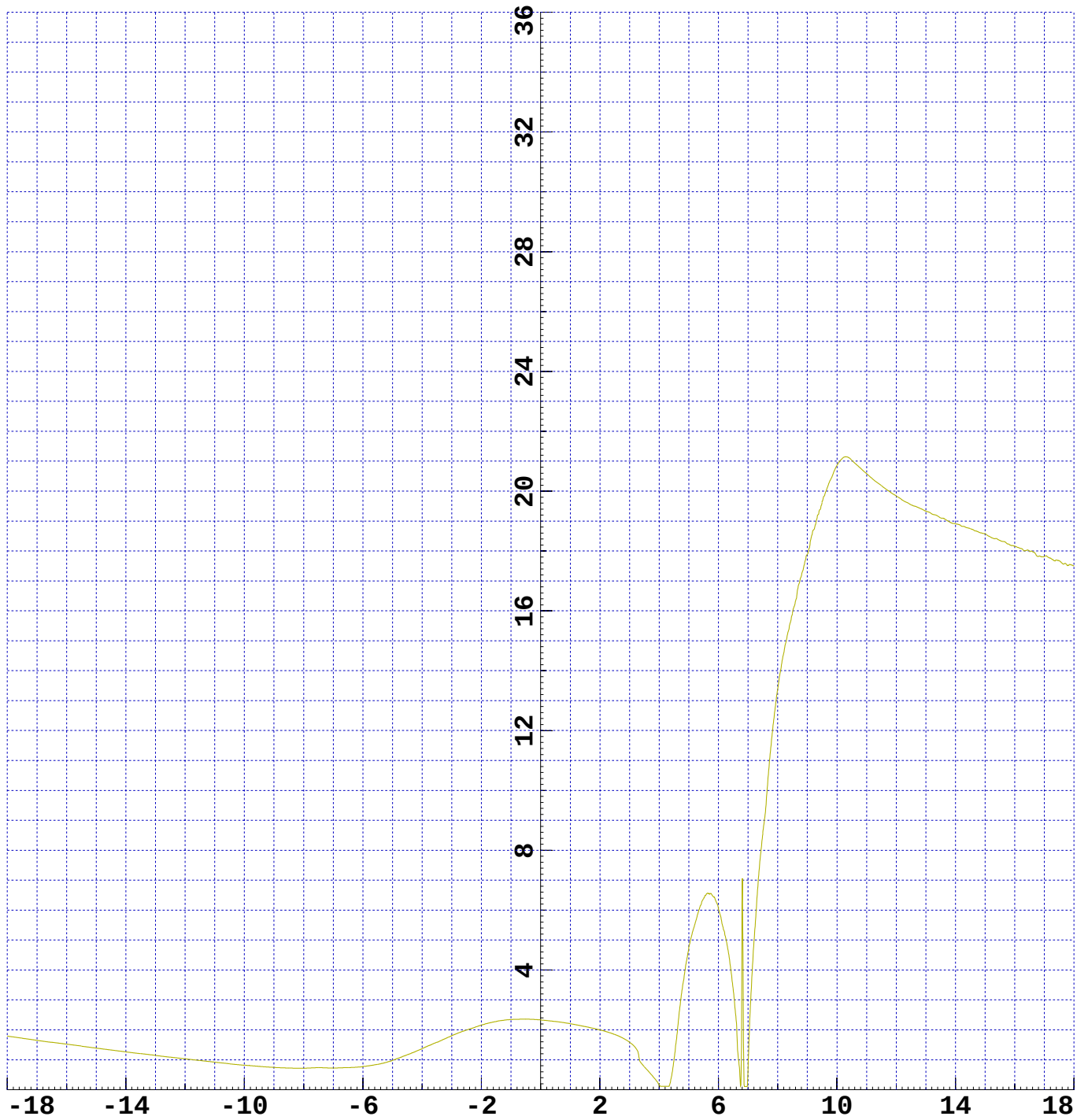
C_1

Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016



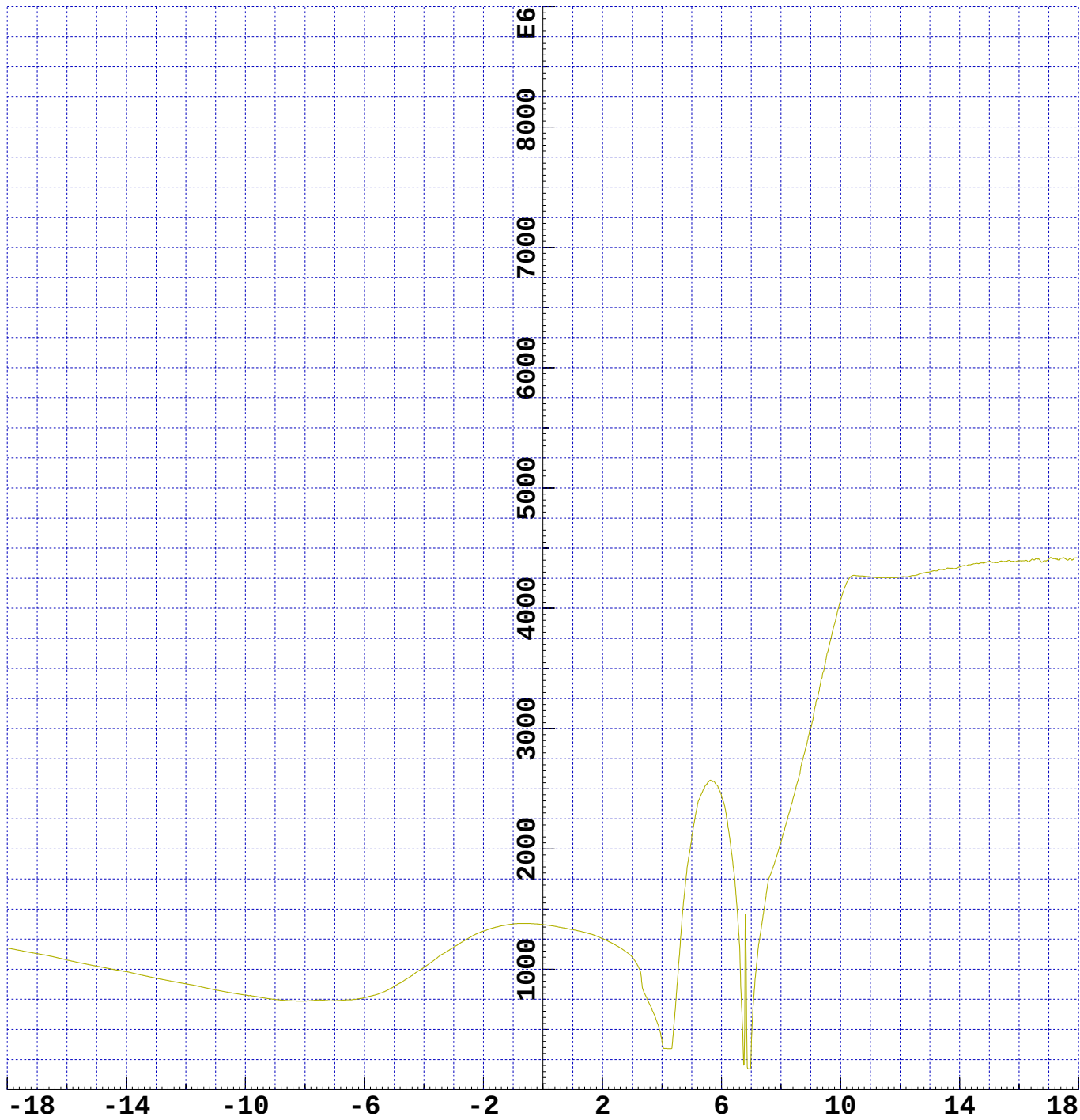
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016

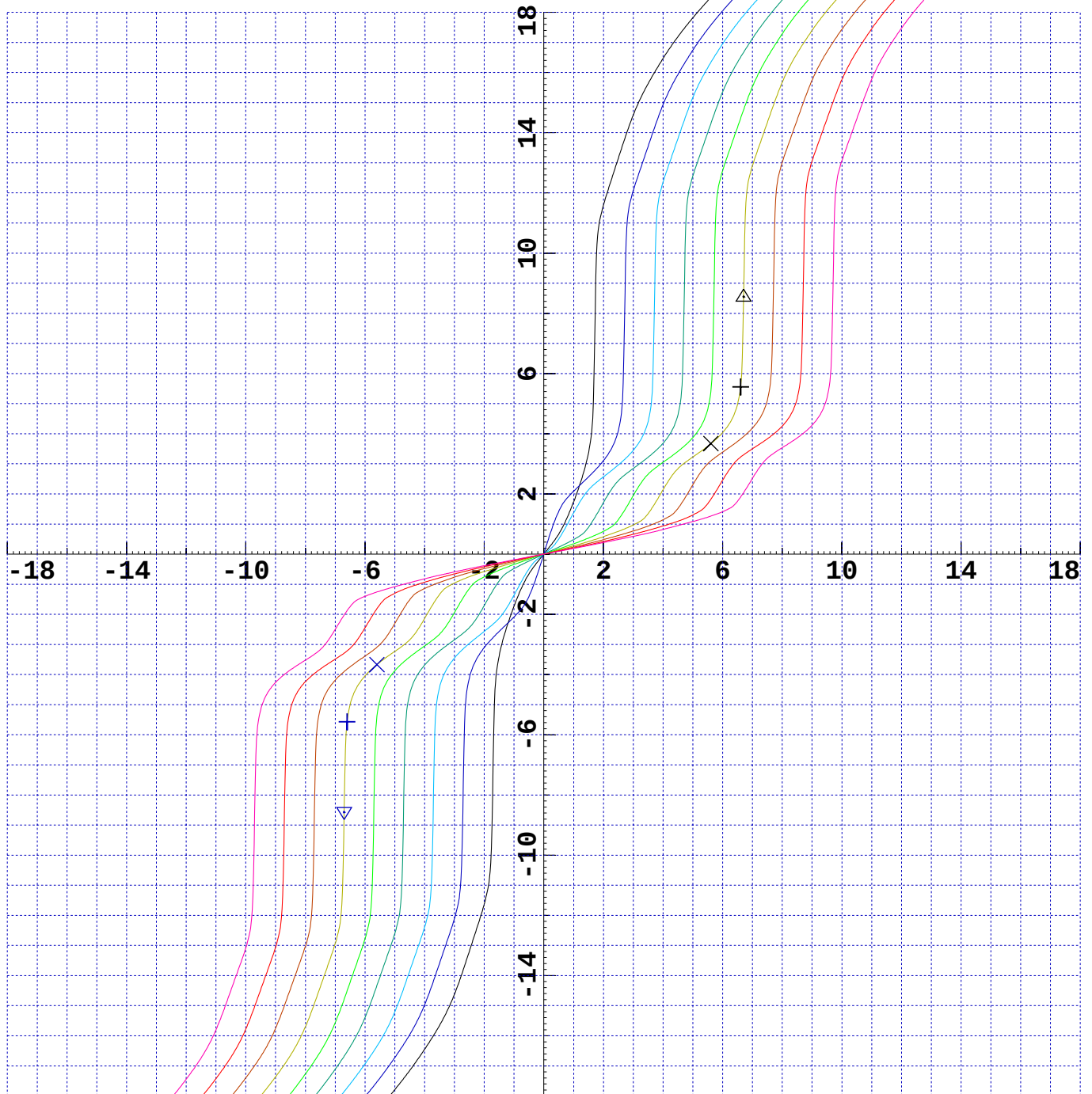
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

× = $\Delta r_E = 3.67$ left curve
 × = $\Delta r_E = 3.67$ right curve
 + = $A0r = 6.60$ 5.56
 + = $A0l = -6.60$ -5.57

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/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
 wprof_lat_shift=0 Gauge= 1425-1441

rr-rl

Ident: kpfr_016

GENSYS-KPF.1308

Delta_Y=

.1

.5

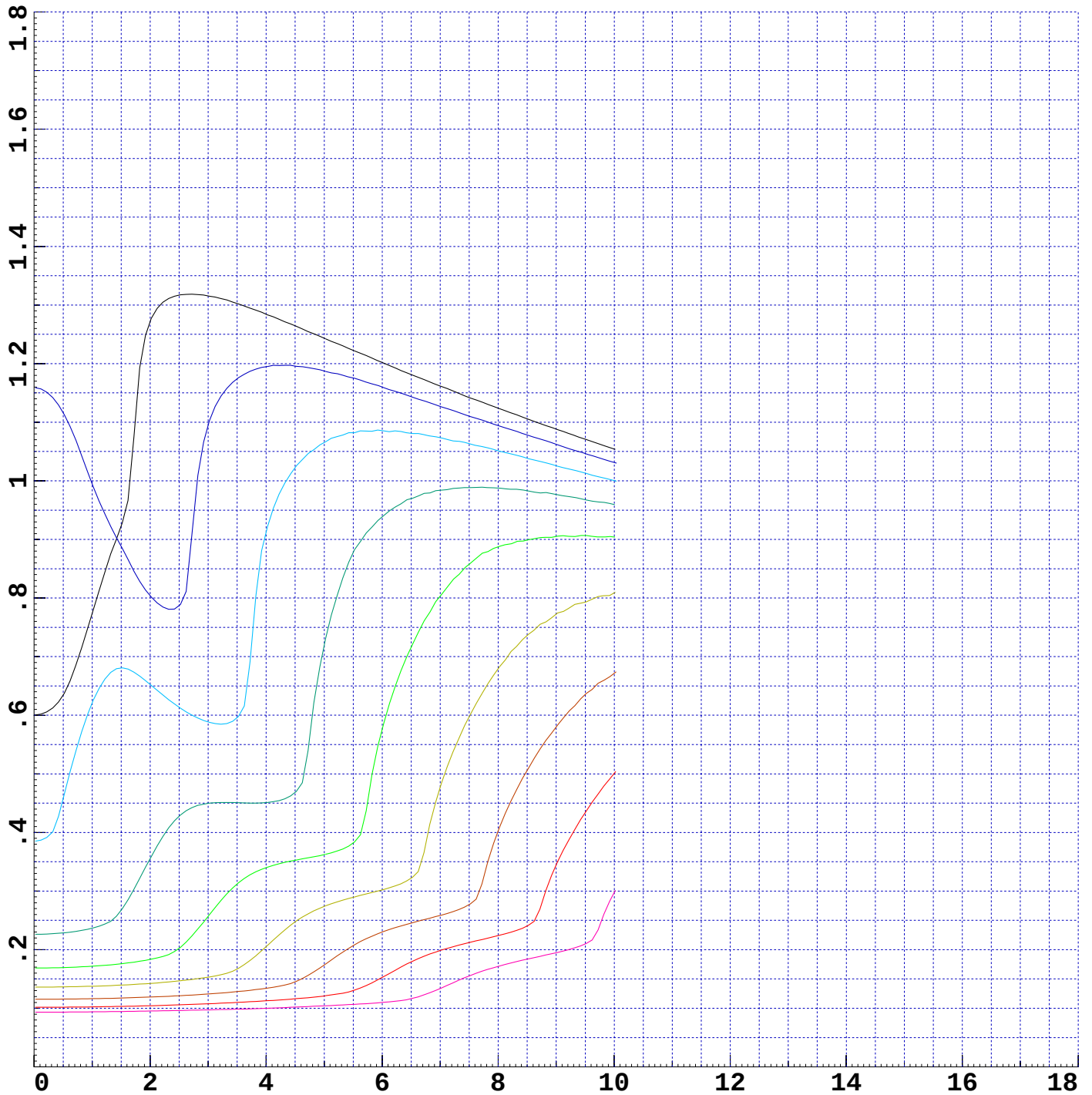
2

3

4

6

Gauge=	1425	—	.602	.635	1.272	1.316	1.284	1.202
	1427	—	1.157	1.116	.804	1.095	1.194	1.160
	1429	—	.386	.457	.652	.588	.913	1.086
	1431	—	.227	.229	.356	.450	.451	.938
	1433	—	.169	.169	.183	.257	.340	.577
	1435	—	.136	.136	.142	.153	.205	.302
	1437	—	.115	.116	.119	.124	.134	.230
	1439	—	.102	.102	.104	.108	.113	.152
	1441	—	.093	.093	.095	.097	.100	.110



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

Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail

UIC519

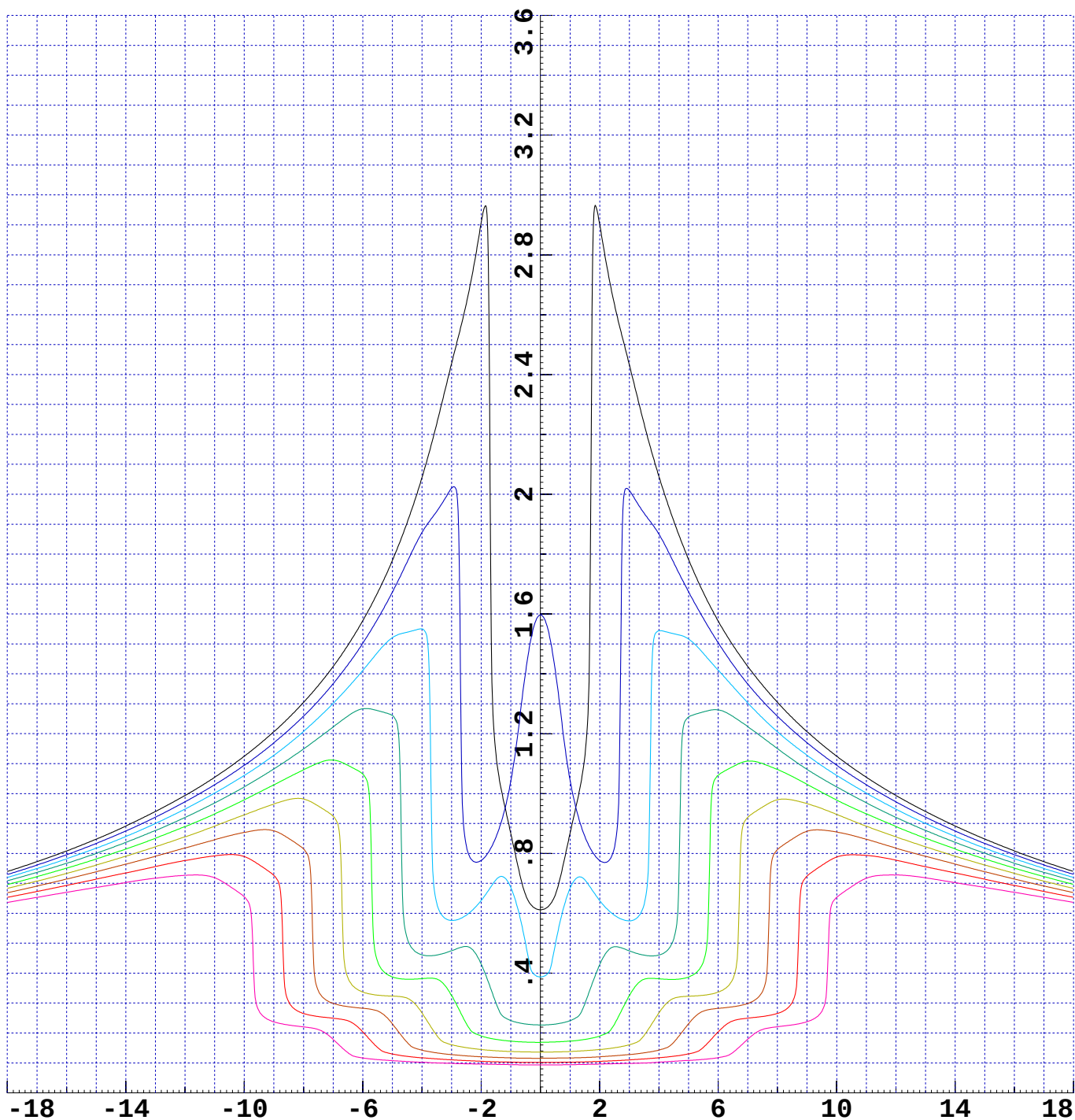
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	.613	.663	2.900	2.432	2.059	1.576
	1427	1.589	1.409	.776	2.013	1.867	1.504
	1429	.389	.496	.642	.575	1.544	1.412
	1431	.227	.230	.428	.474	.460	1.279
	1433	.169	.170	.190	.325	.381	1.061
	1435	.136	.137	.145	.161	.267	.337
	1437	.116	.116	.120	.128	.143	.282
	1439	.102	.102	.105	.110	.117	.204
	1441	.093	.093	.096	.098	.102	.118



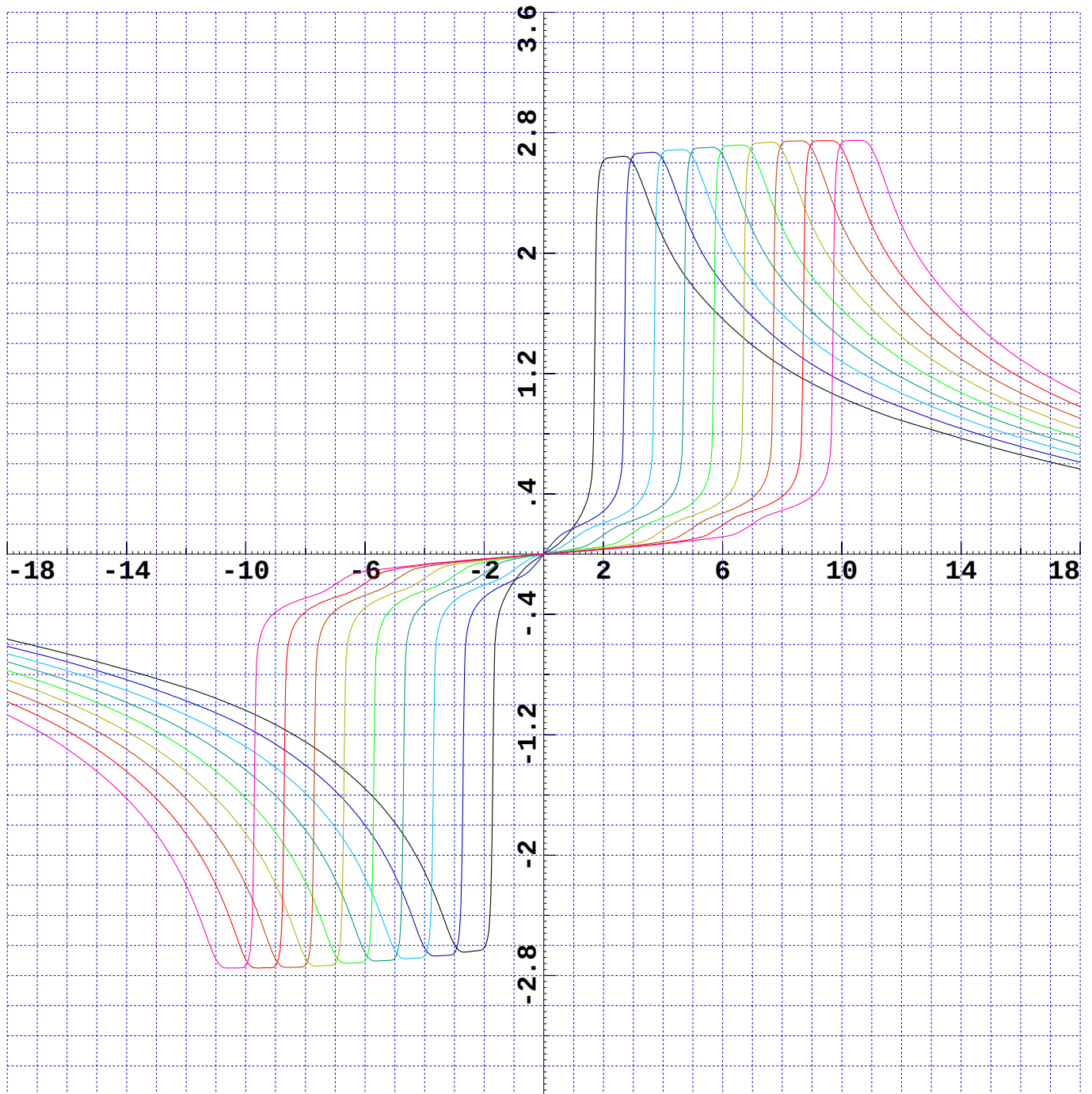
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

lambda

Ident: kpfr_016

GENSYS-KPF.1308

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

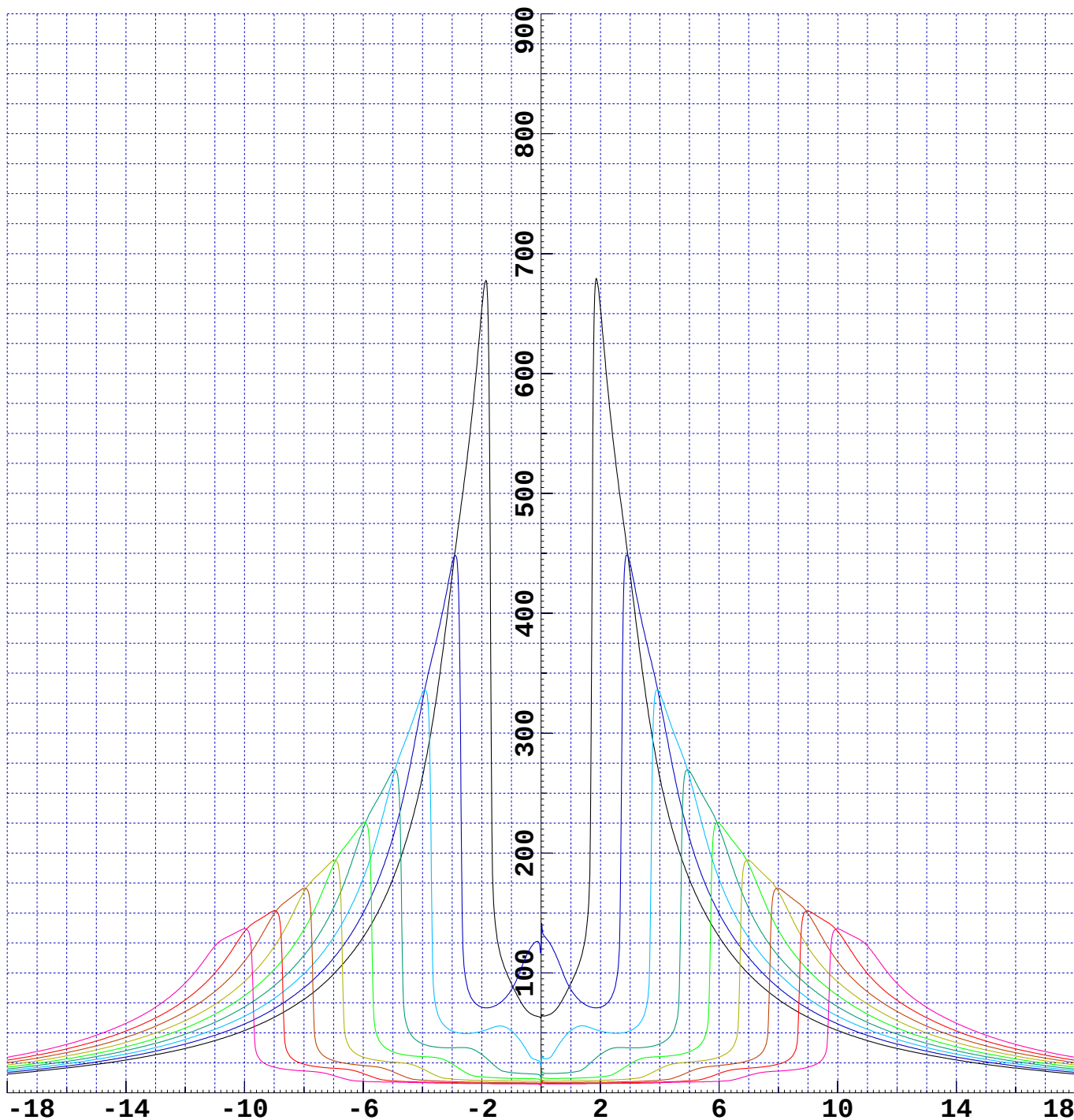


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel tan_Ga
 Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	64.15	69.44	653.55	432.55	263.02	130.21
1427	—	131.02	114.74	71.46	441.32	327.43	149.64
1429	—	28.58	36.41	51.51	51.67	333.44	178.28
1431	—	16.29	16.13	32.03	37.61	40.88	220.96
1433	—	12.17	11.94	13.38	24.19	30.16	224.86
1435	—	9.99	9.77	10.33	11.52	20.02	29.81
1437	—	8.71	8.51	8.82	9.38	10.54	22.75
1439	—	7.98	7.79	8.03	8.42	9.00	16.15
1441	—	7.66	7.49	7.72	7.96	8.38	9.60

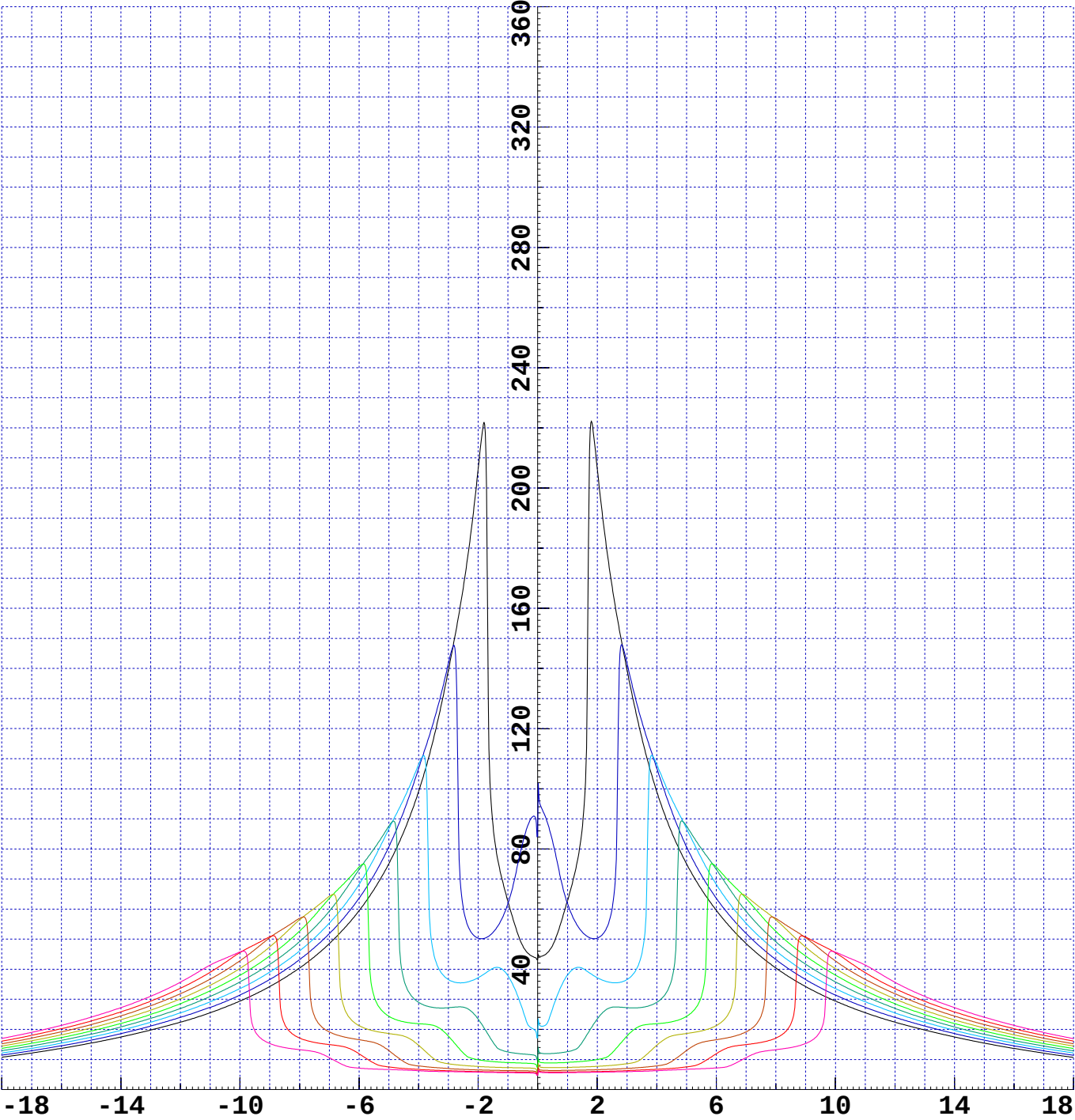


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail KAPPA
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	44.30	47.91	206.25	139.41	98.98	59.57
1427	—	94.32	82.59	50.35	141.67	106.81	63.56
1429	—	21.13	26.86	37.17	36.56	108.08	68.18
1431	—	12.10	11.97	23.53	27.22	29.01	73.20
1433	—	9.06	8.89	9.95	17.80	21.87	73.98
1435	—	7.45	7.29	7.69	8.57	14.76	21.25
1437	—	6.50	6.35	6.58	7.00	7.86	16.57
1439	—	5.96	5.83	6.00	6.29	6.72	11.94
1441	—	5.73	5.60	5.77	5.95	6.27	7.16



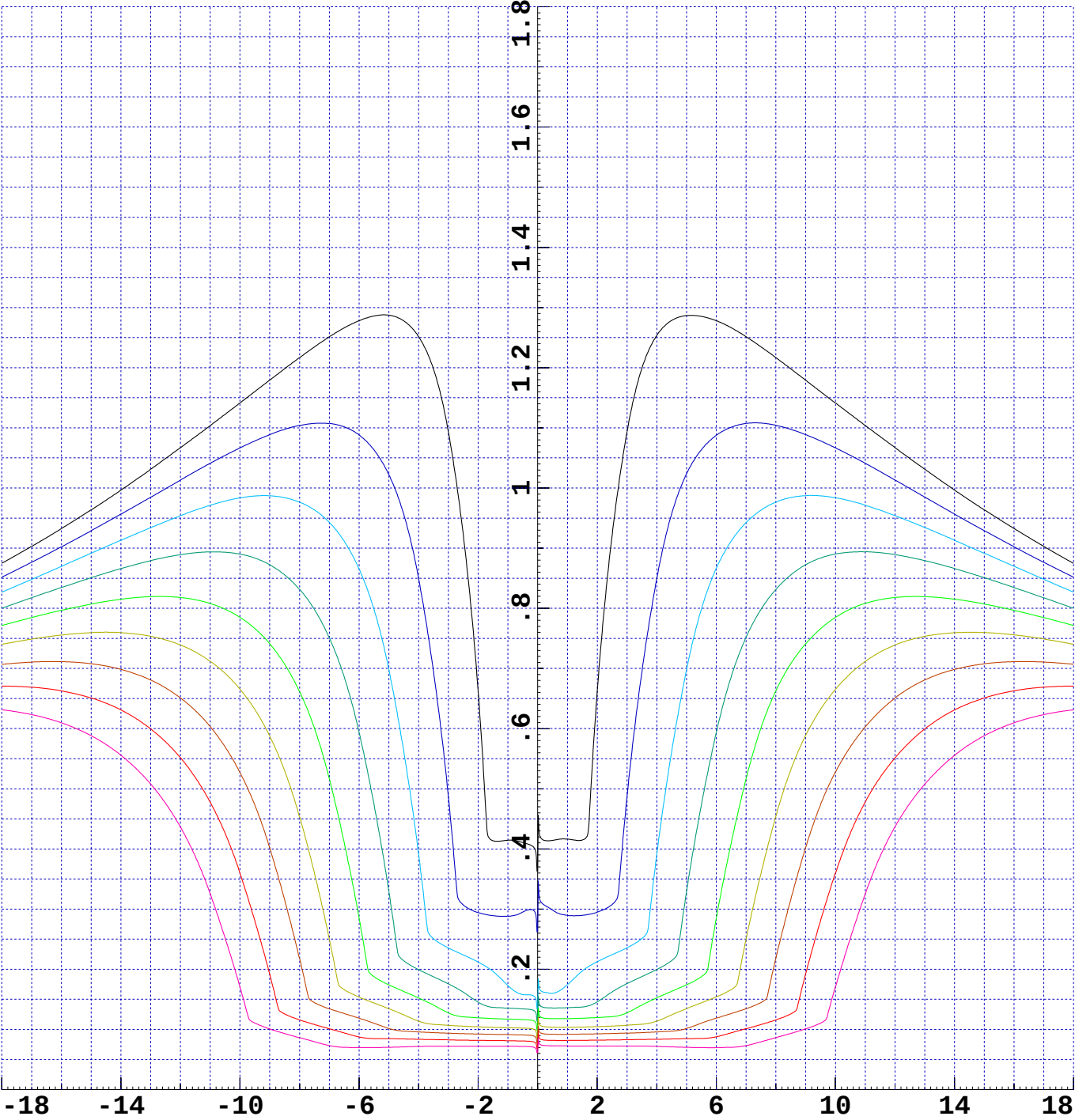
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

EPS

Ident: kpfr_016

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	.42	.41	.66	1.09	1.25	1.28
1427	—	.31	.30	.29	.49	.85	1.09
1429	—	.16	.16	.21	.24	.39	.87
1431	—	.14	.14	.15	.18	.20	.59
1433	—	.12	.12	.12	.13	.15	.29
1435	—	.11	.10	.10	.11	.11	.15
1437	—	.09	.09	.09	.09	.10	.12
1439	—	.08	.08	.08	.08	.08	.09
1441	—	.07	.07	.07	.07	.07	.07



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel RollAC
Left rail: r_prof/SEC016_l.short.rail Right rail: r_prof/SEC016_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_016