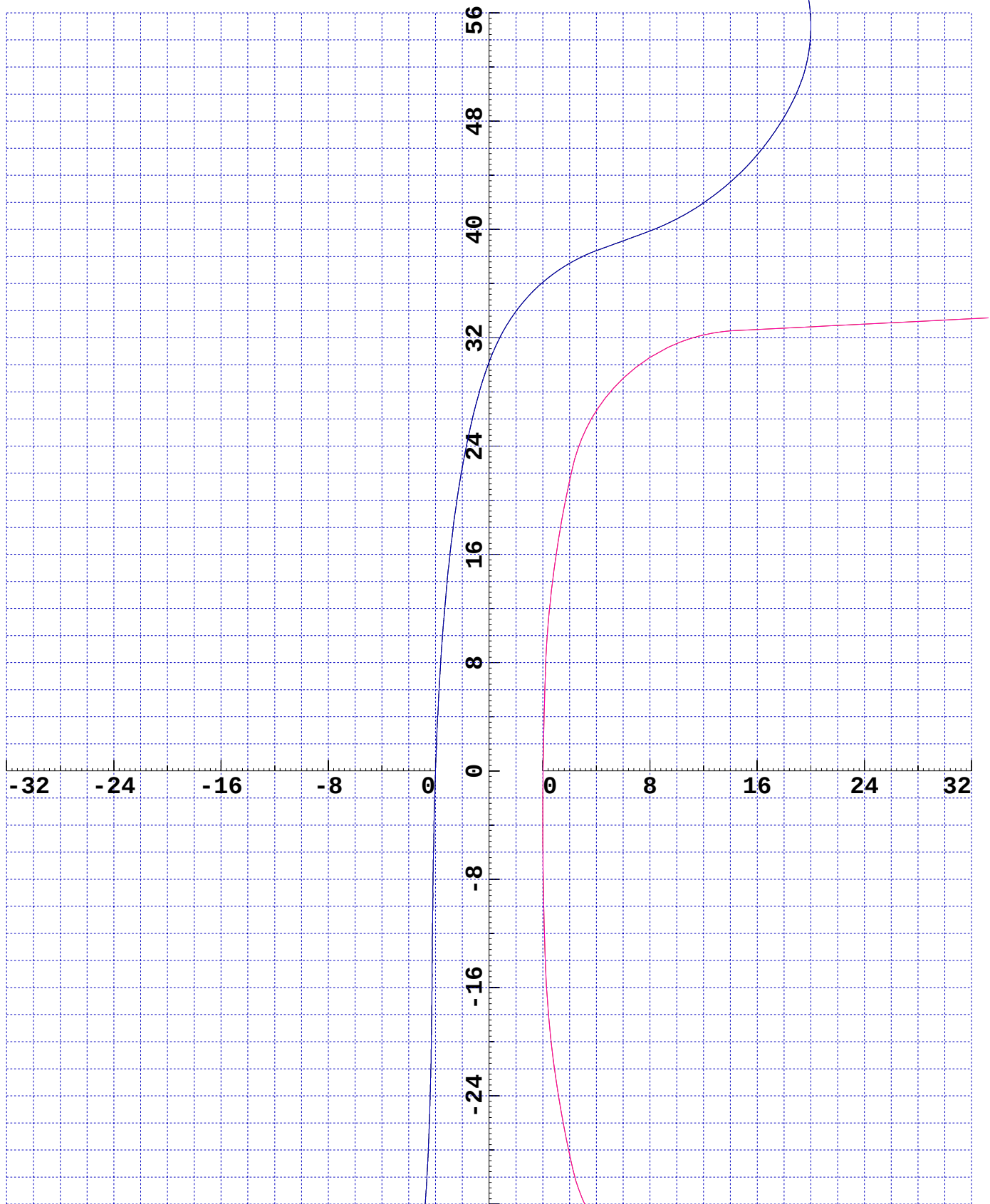
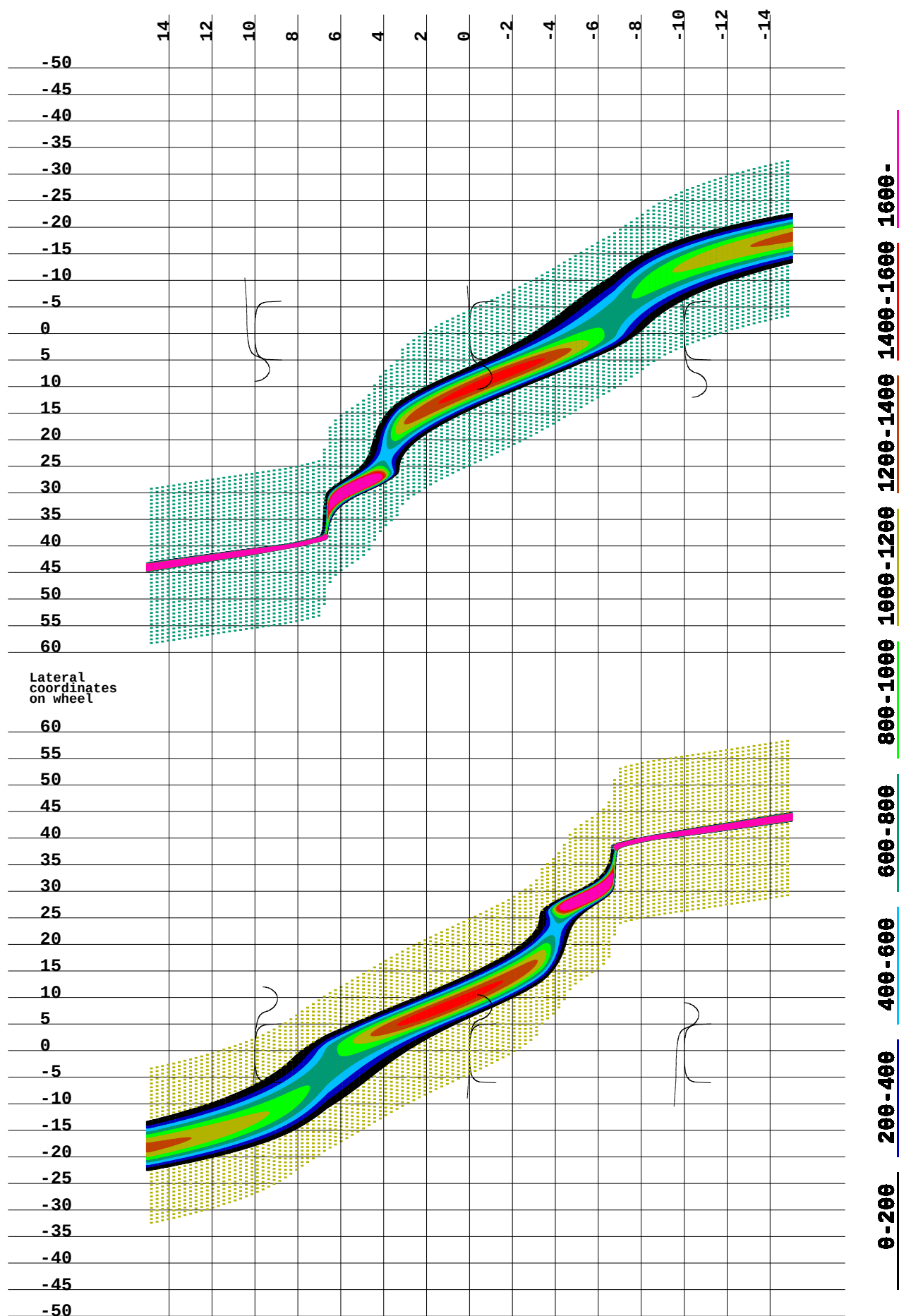


- Right wheel
- Left wheel
- Right rail
- Left rail



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011

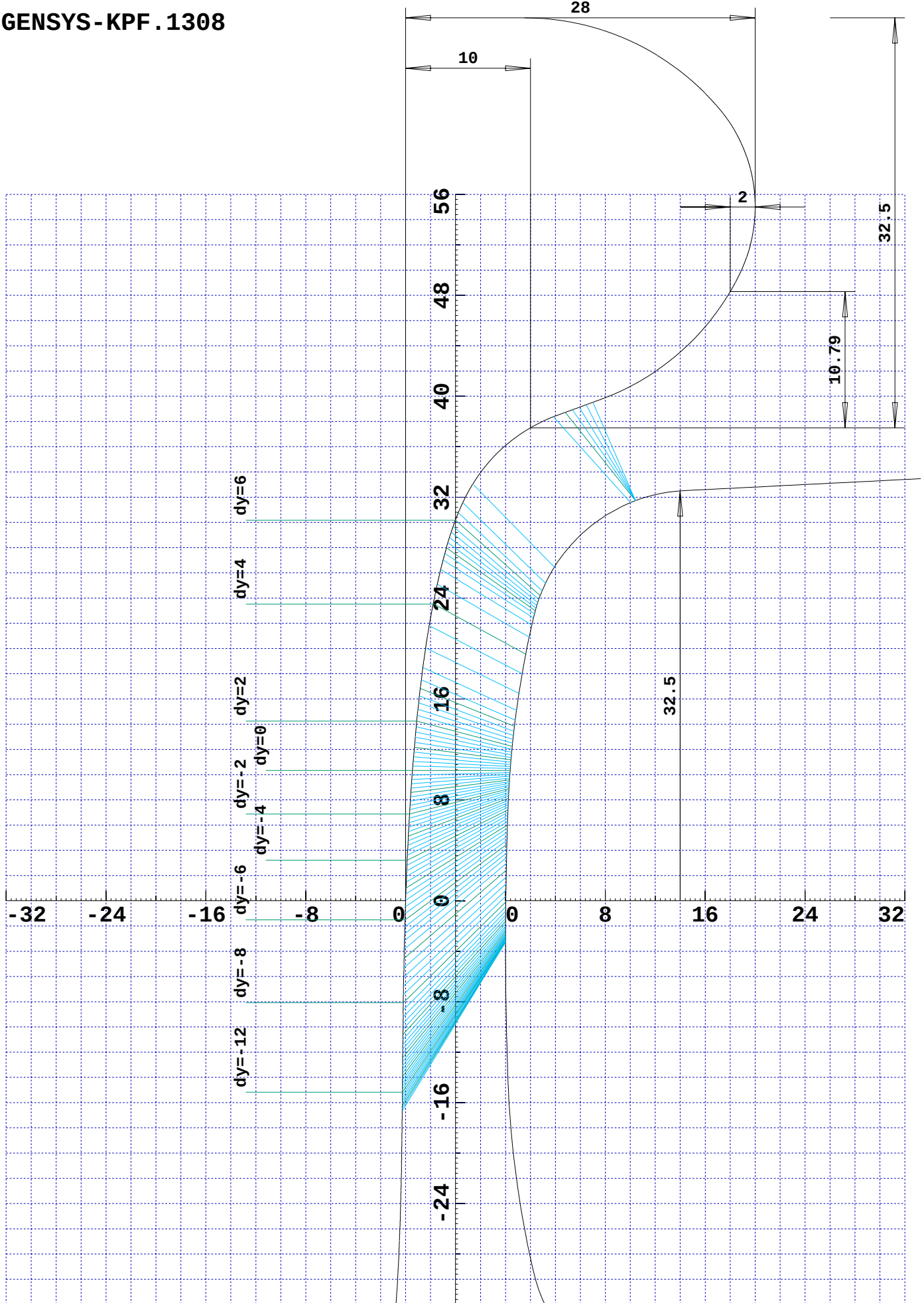


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel

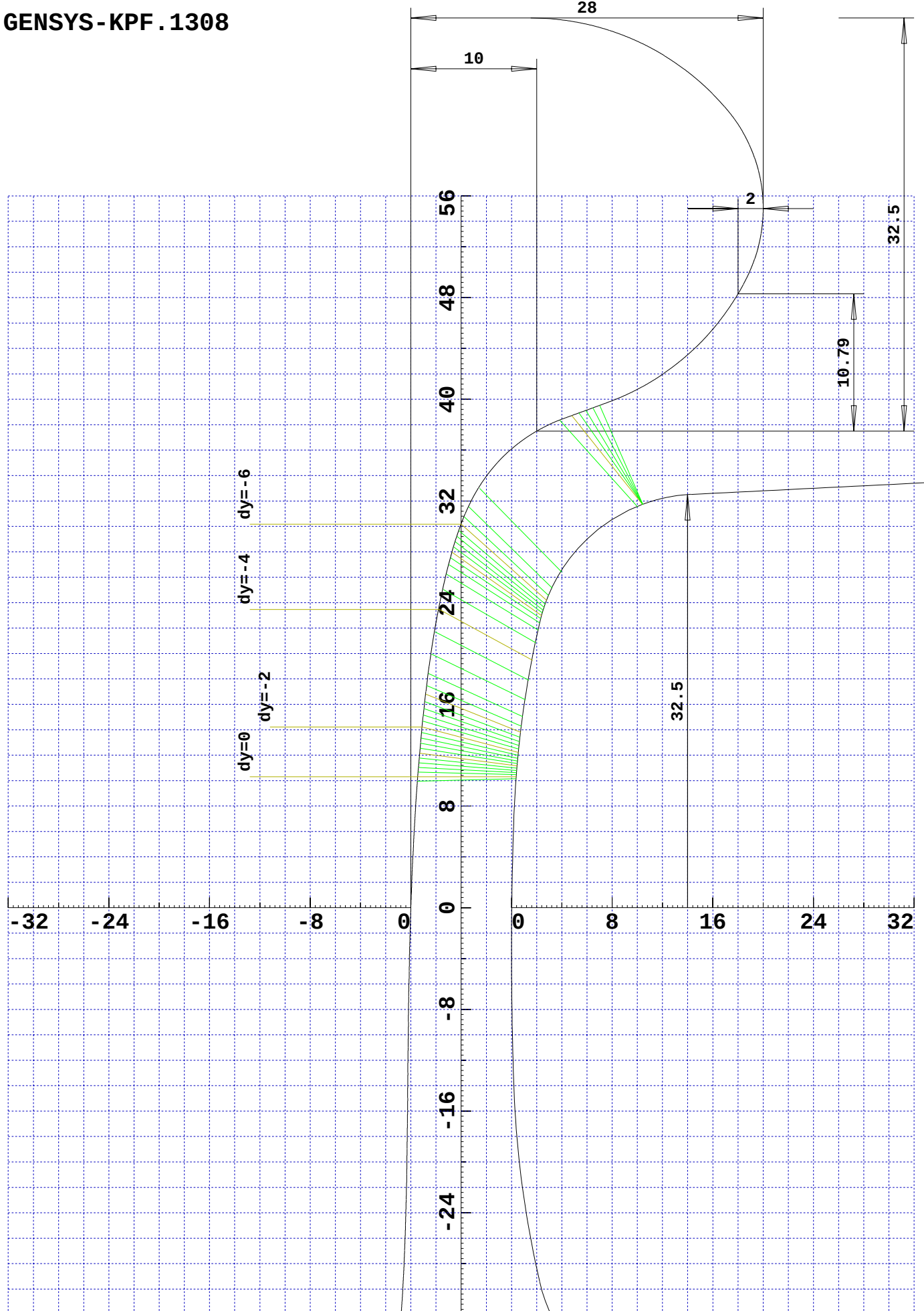
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.sho

Wprof_lat_shift= 0 Gauge= 1425-1441

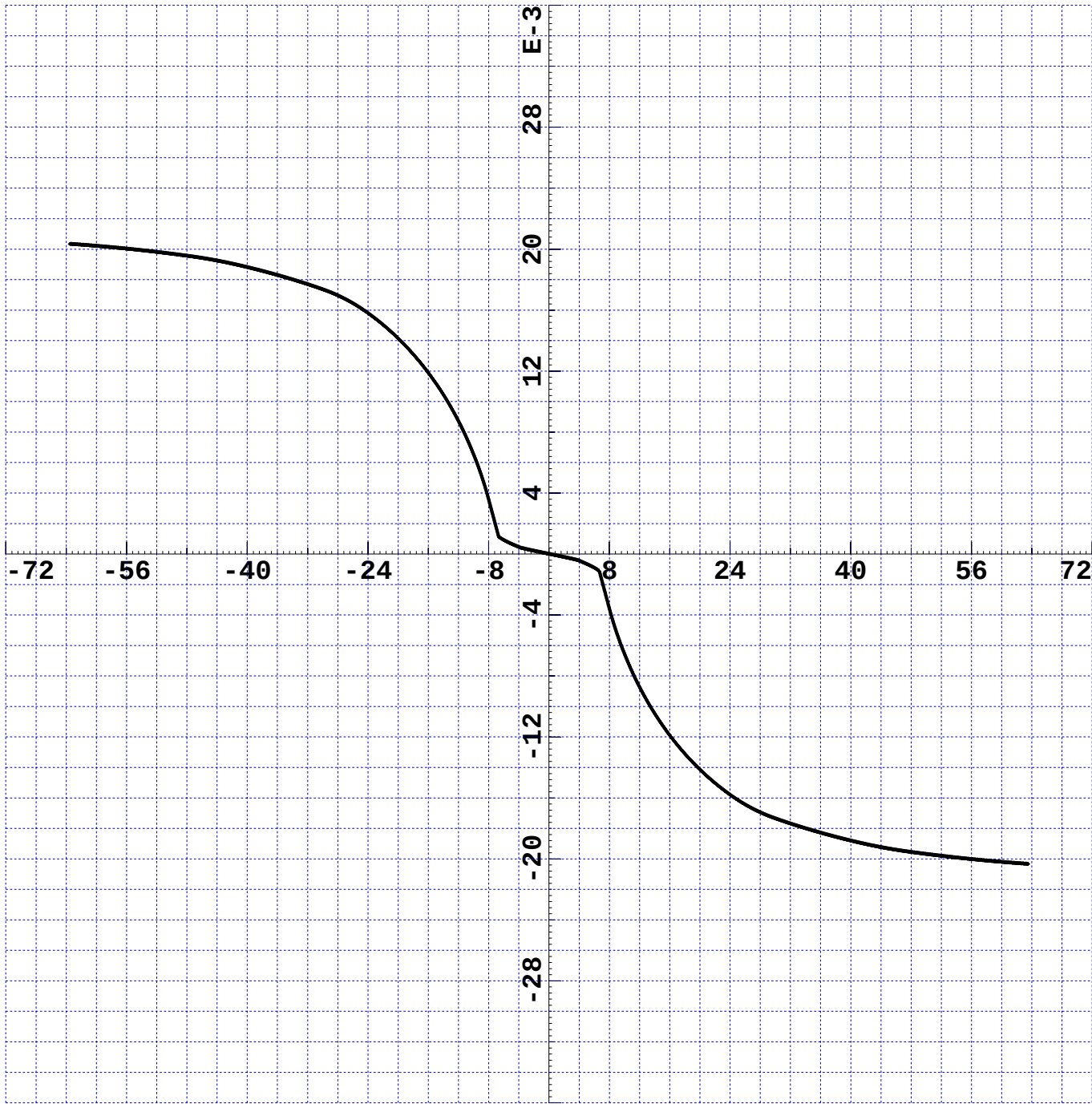
Contact Pressure

**CONNr**

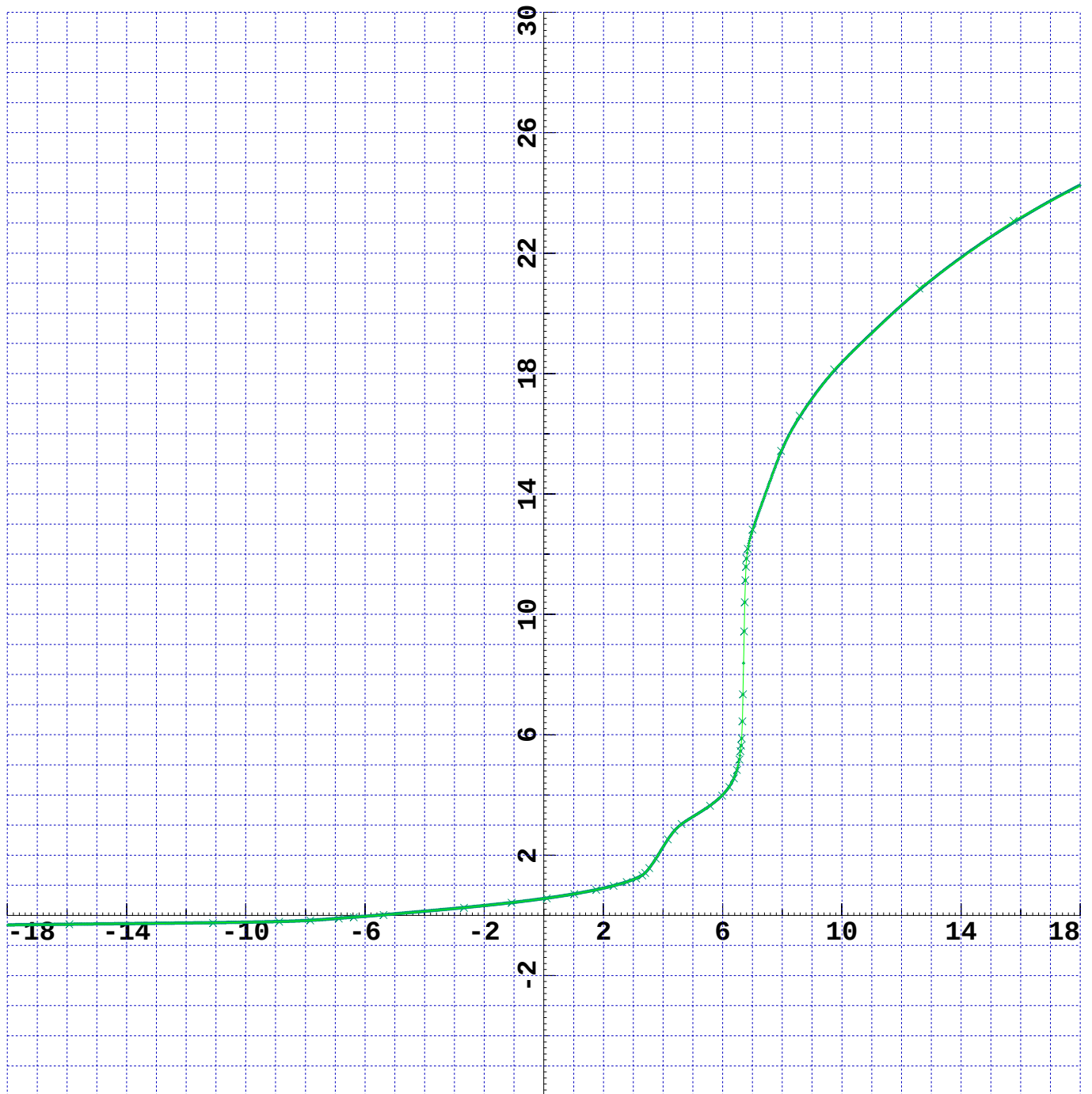
Ident: kpfr_011



Ident: kpfr_011

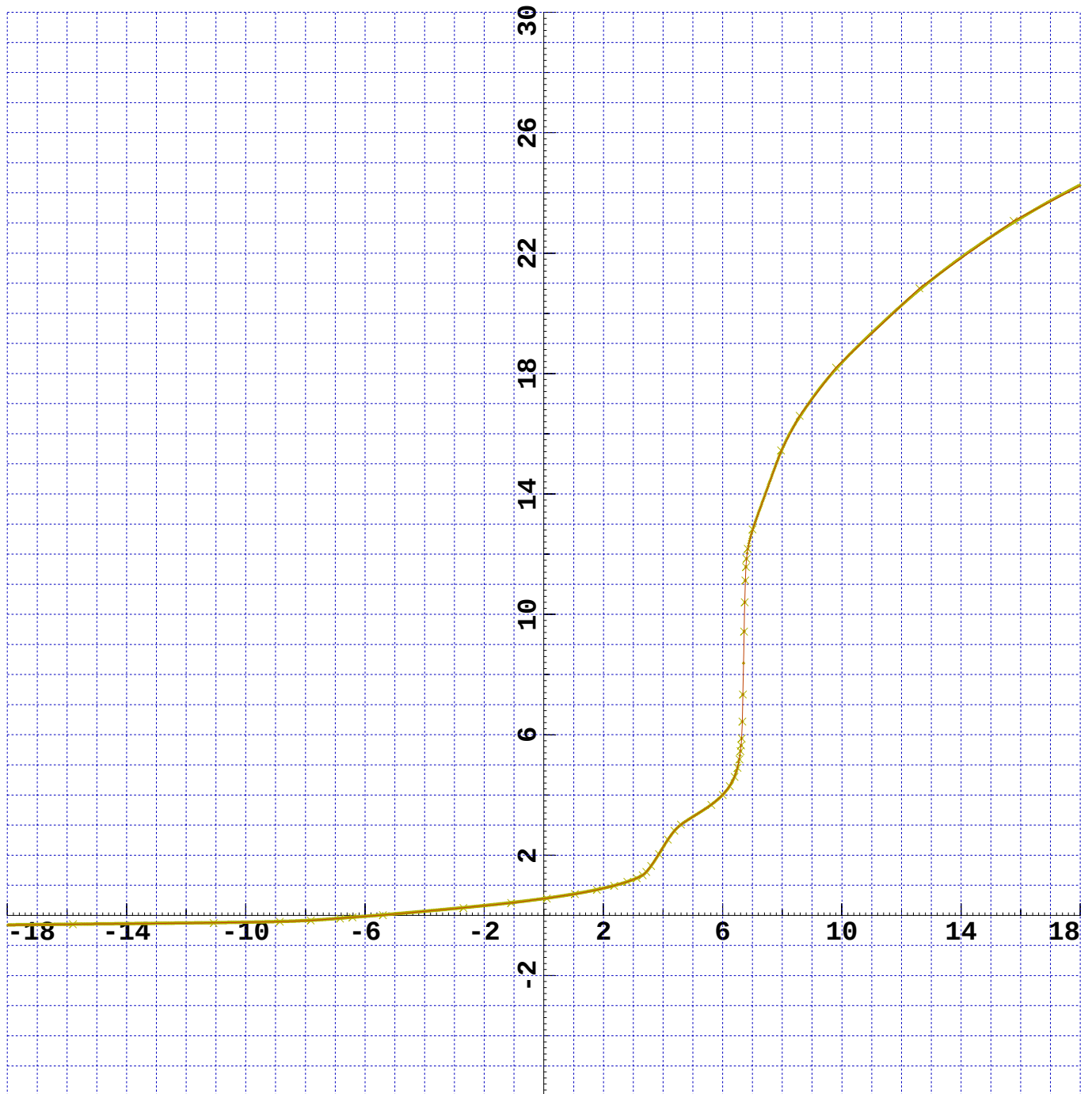


Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **Flaxl**
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441
Ident: kpfr_011



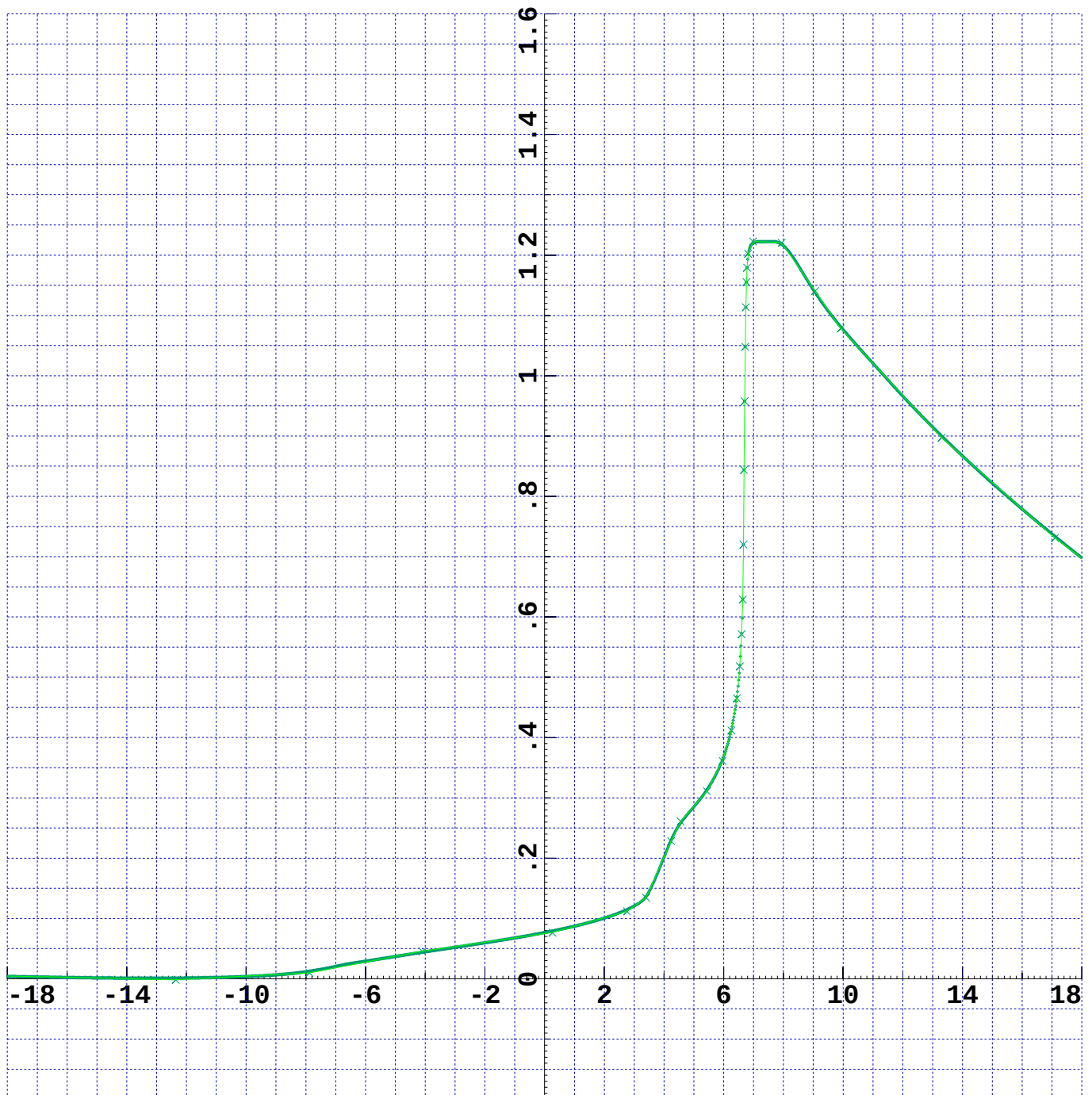
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel DRFNr
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel DRFN1
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011



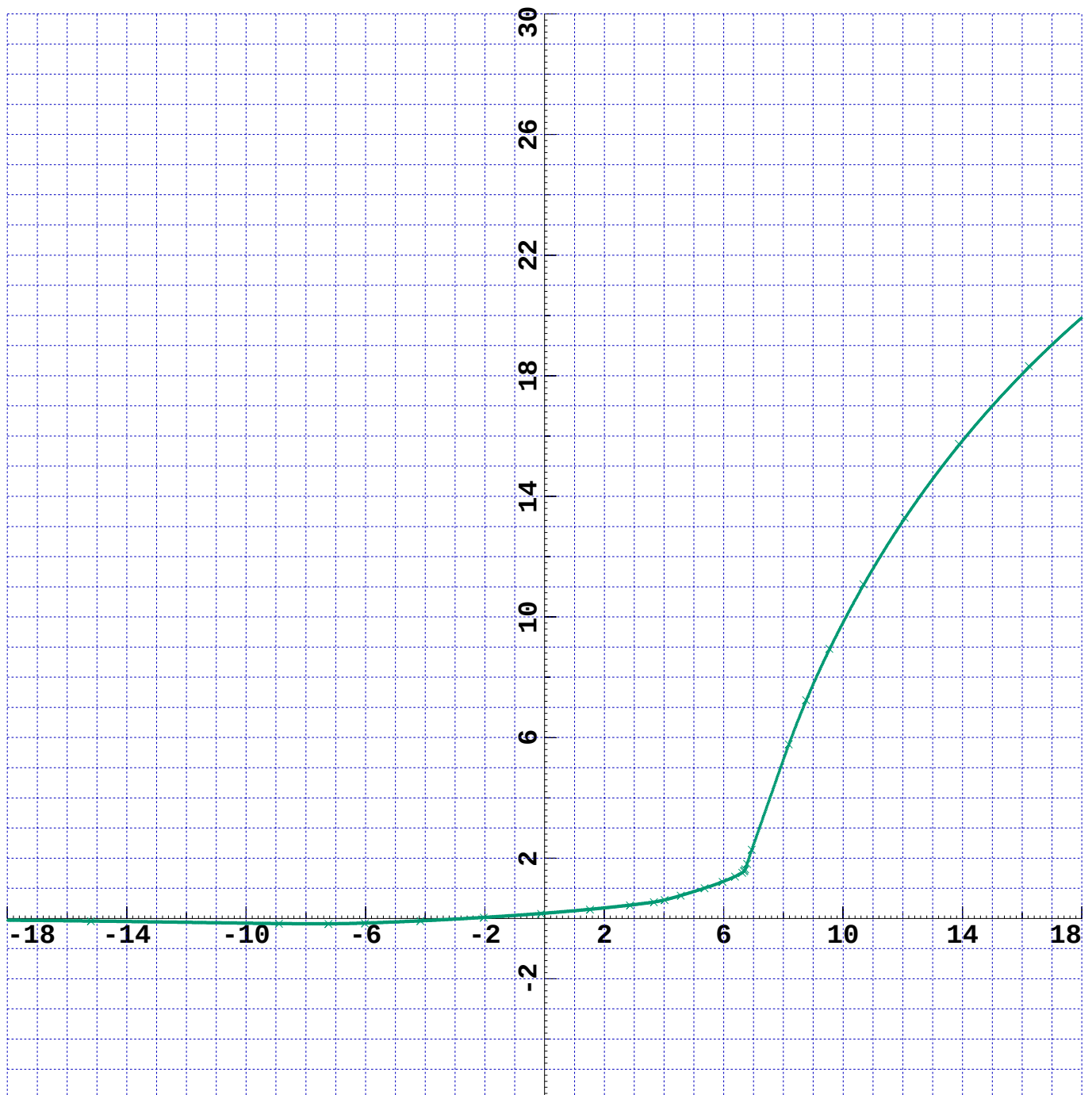
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
 Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail GAMFNR
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel GAMFN1
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

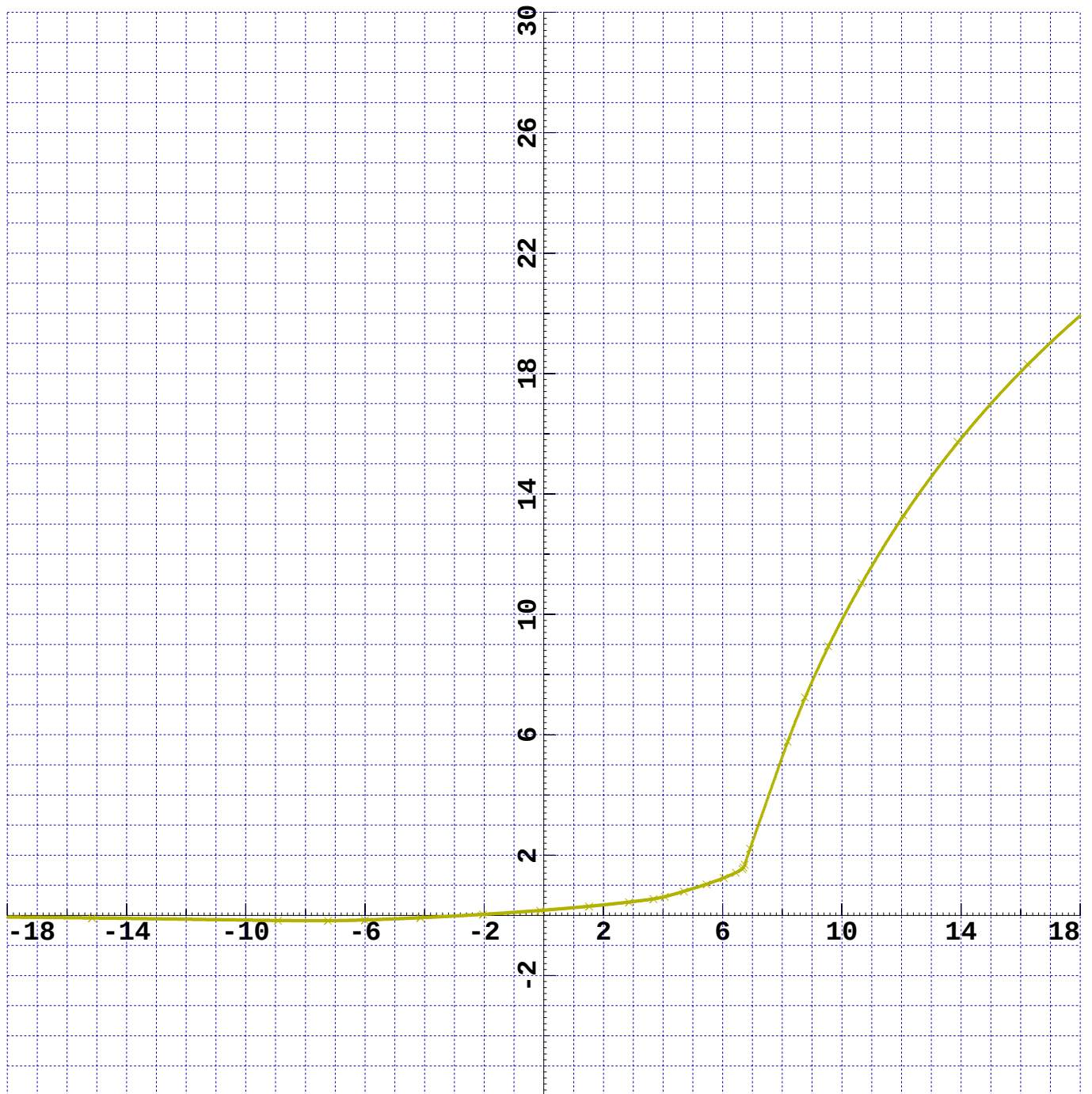
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFNr

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFN1

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

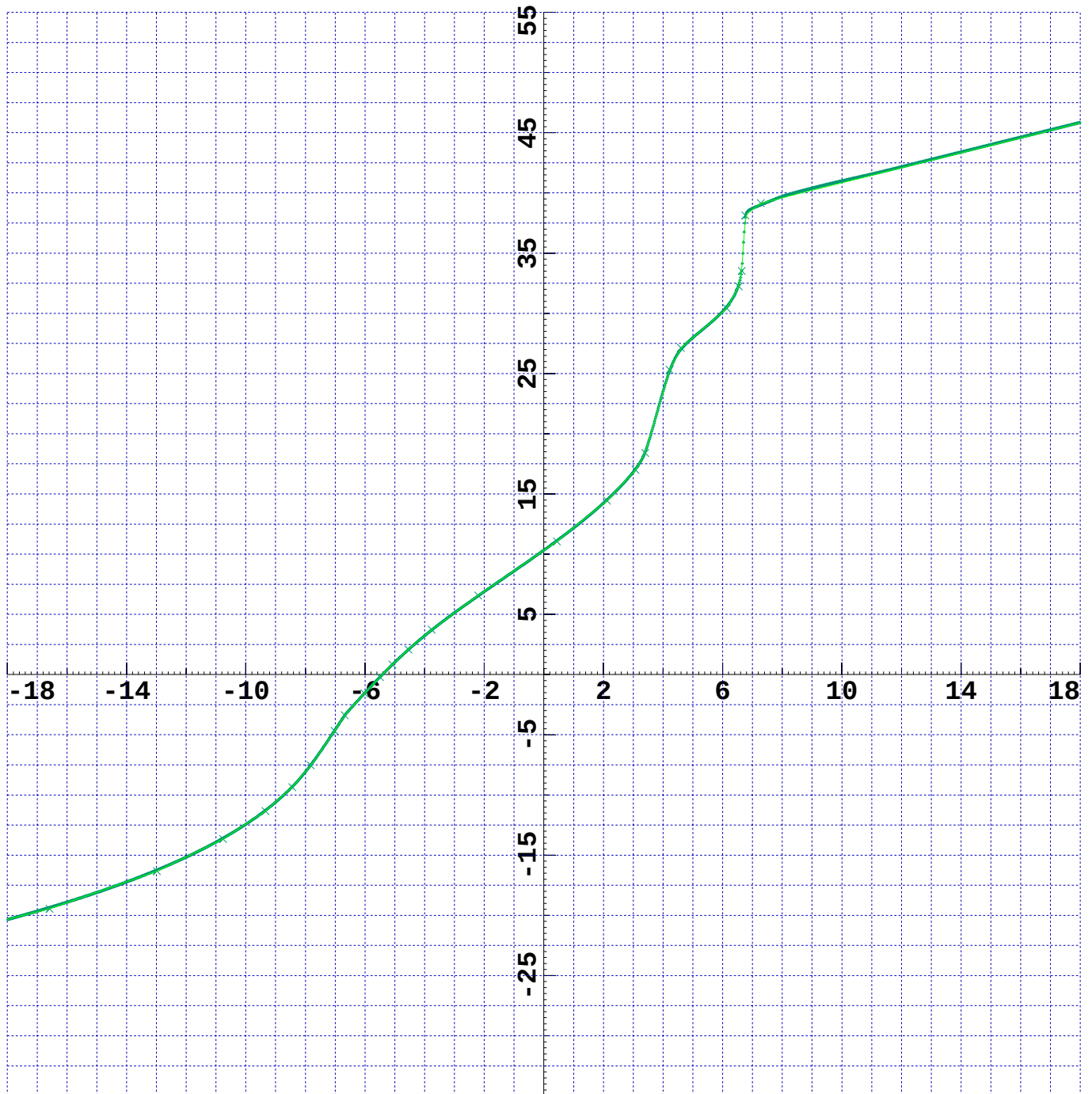
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

ROFN1

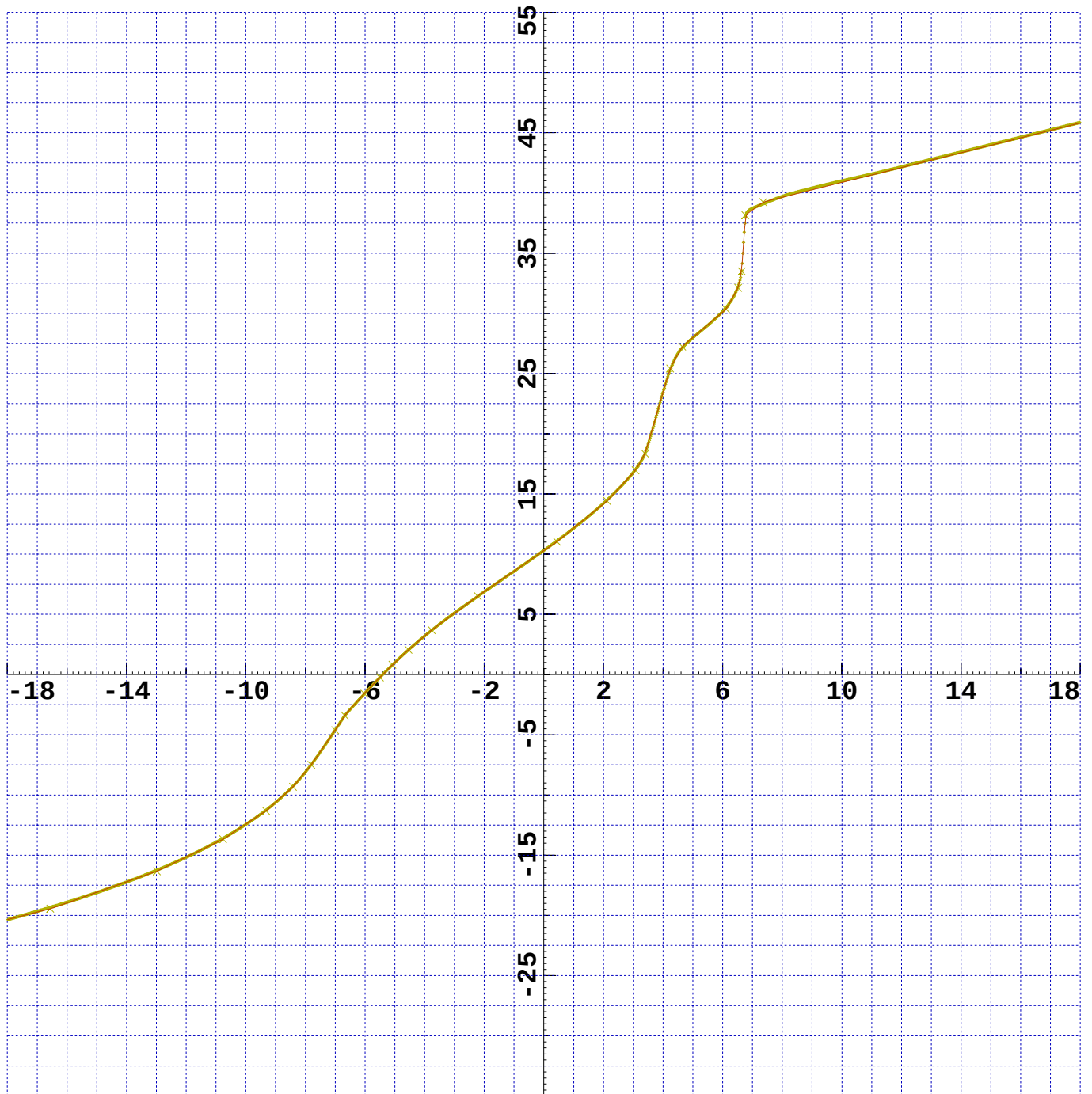
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

POSWr

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSW1
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

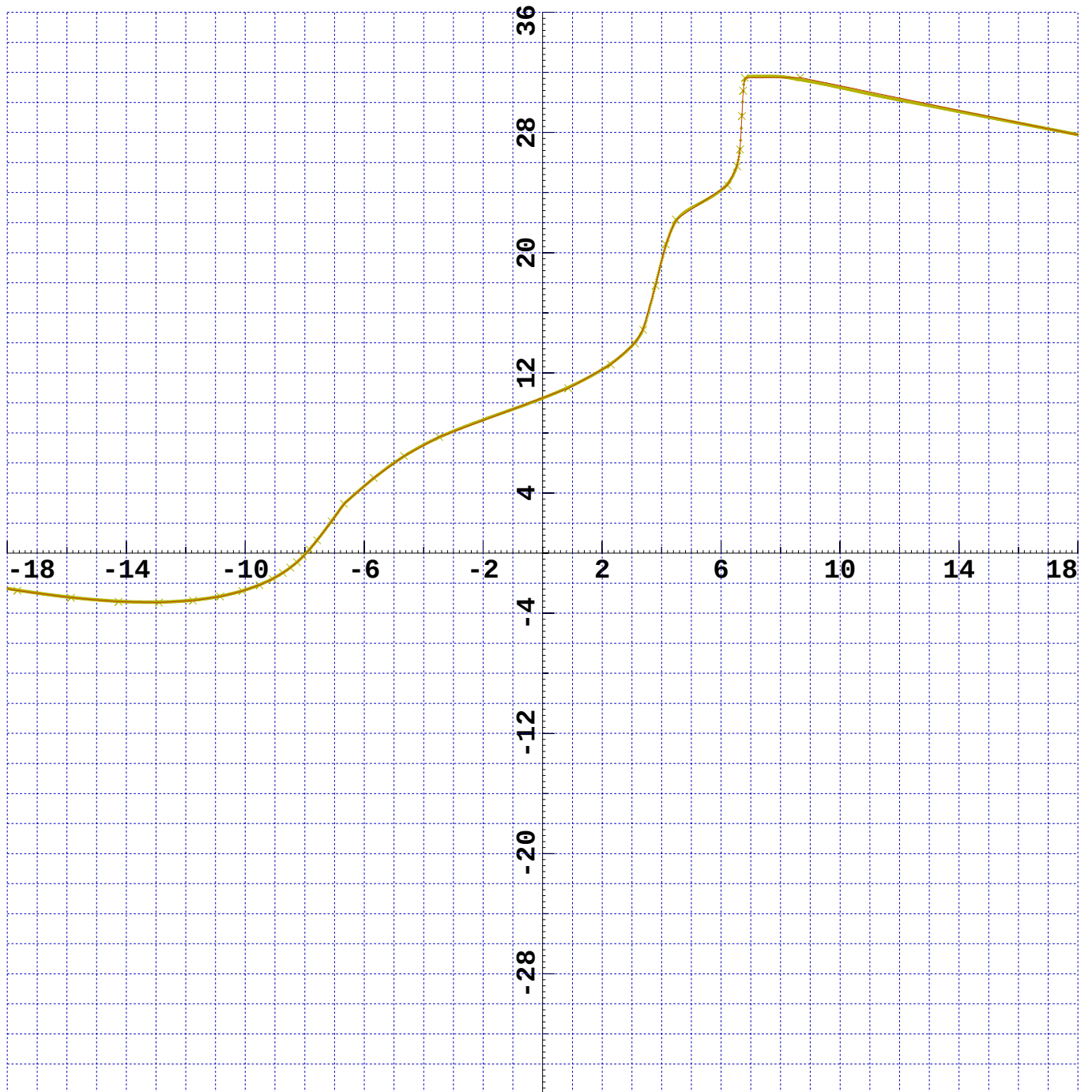
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSRR

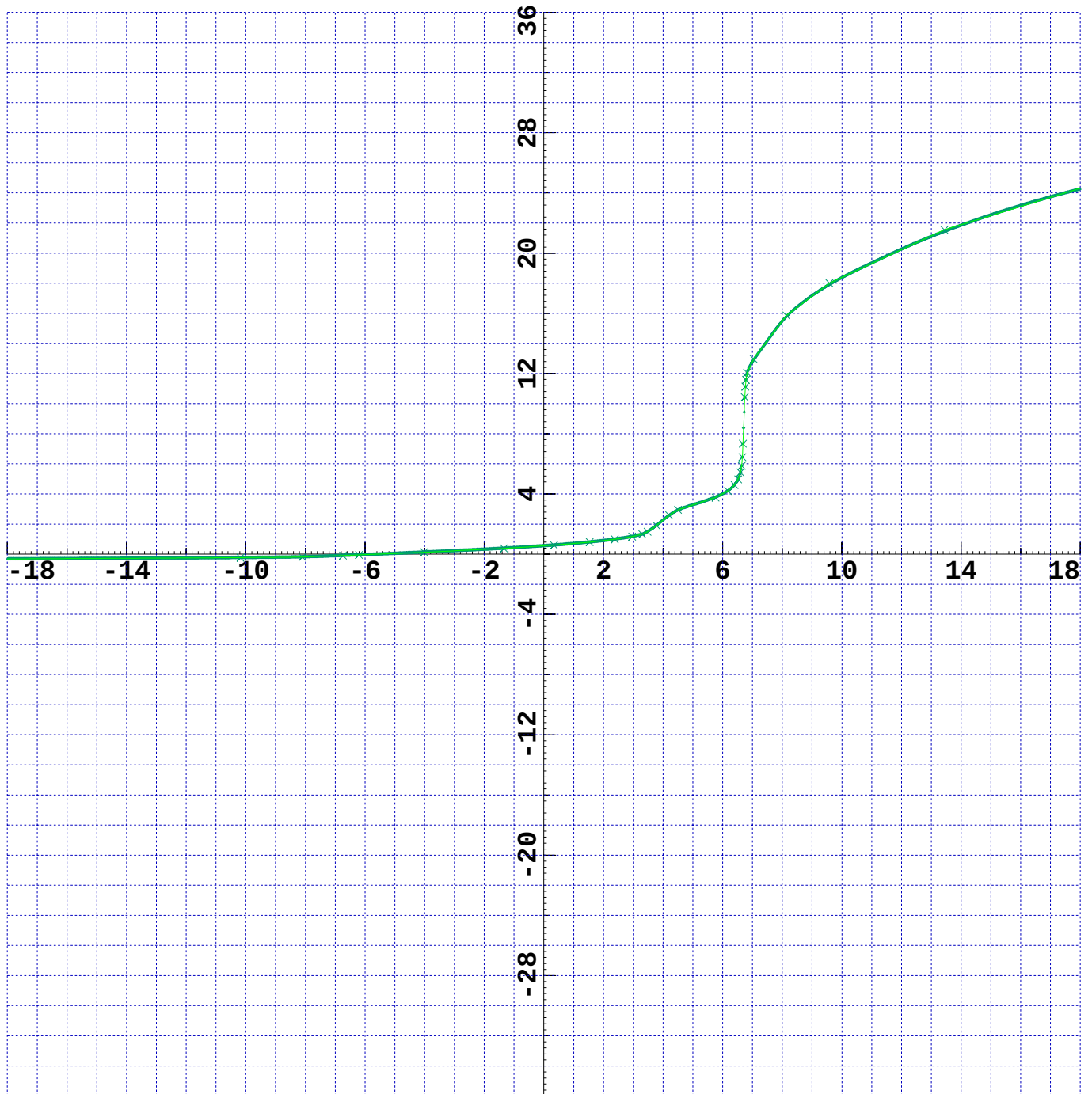
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSRL

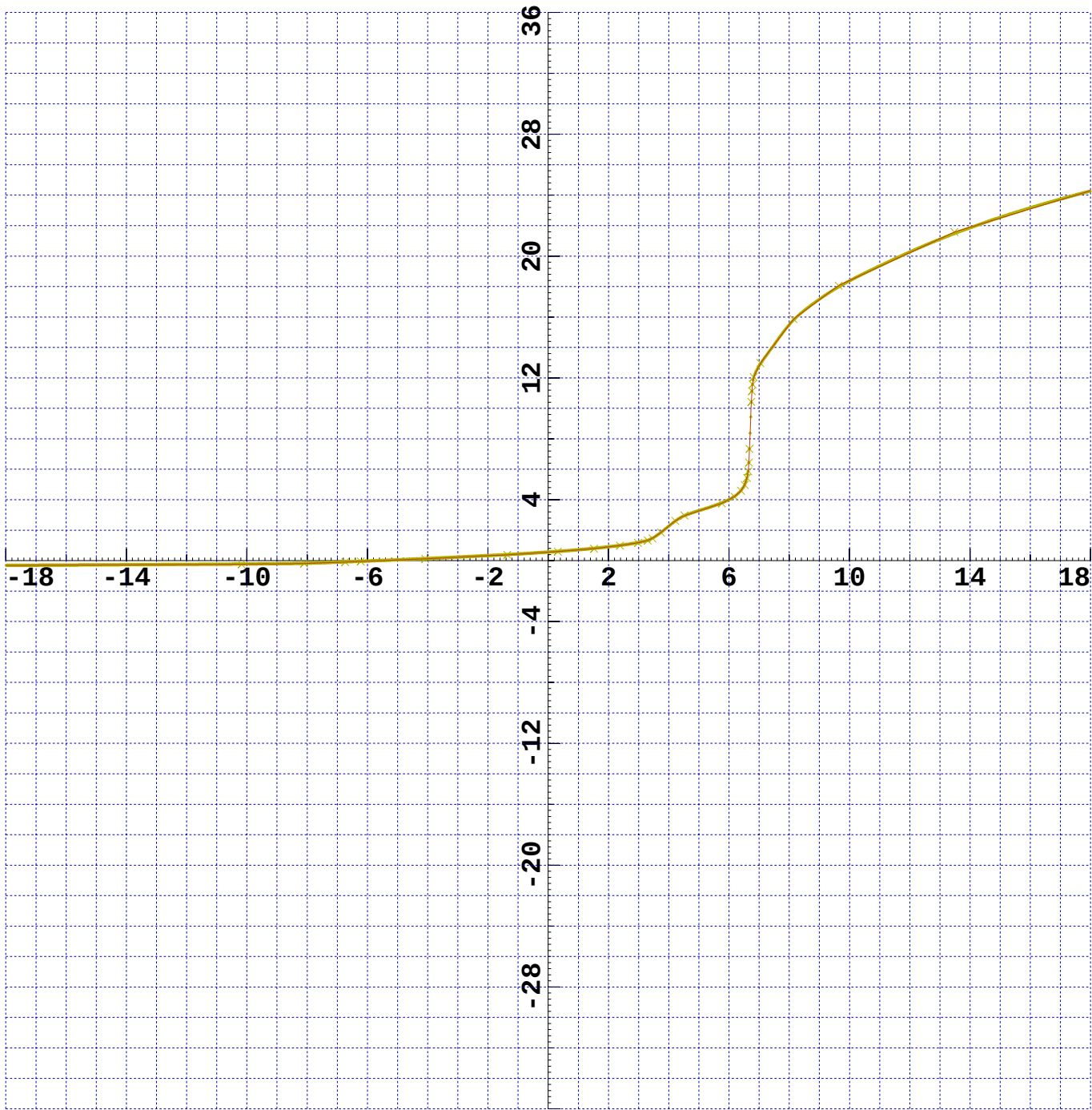
Ident: kpfr_011

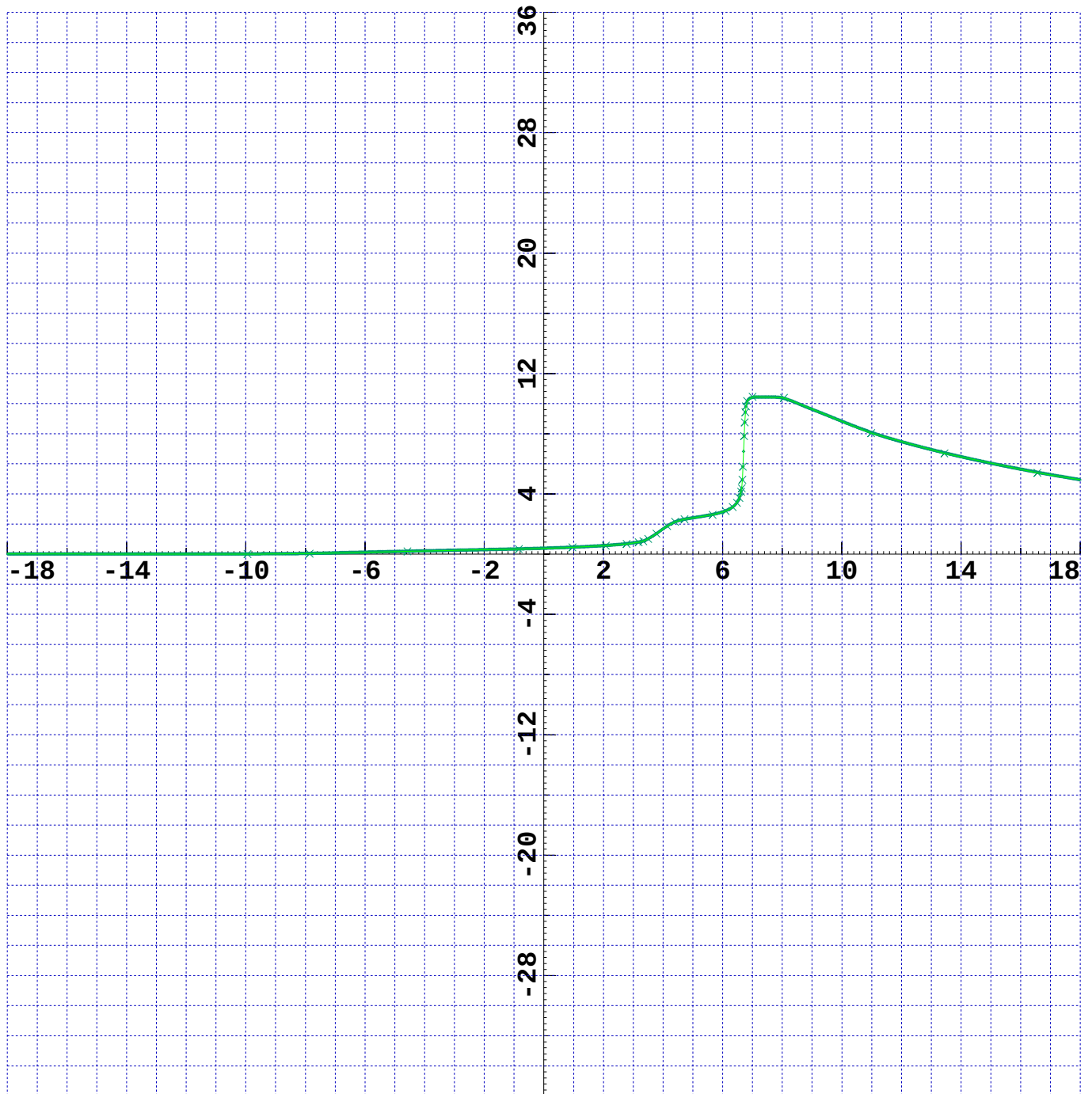


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

Ident: kpfr_011

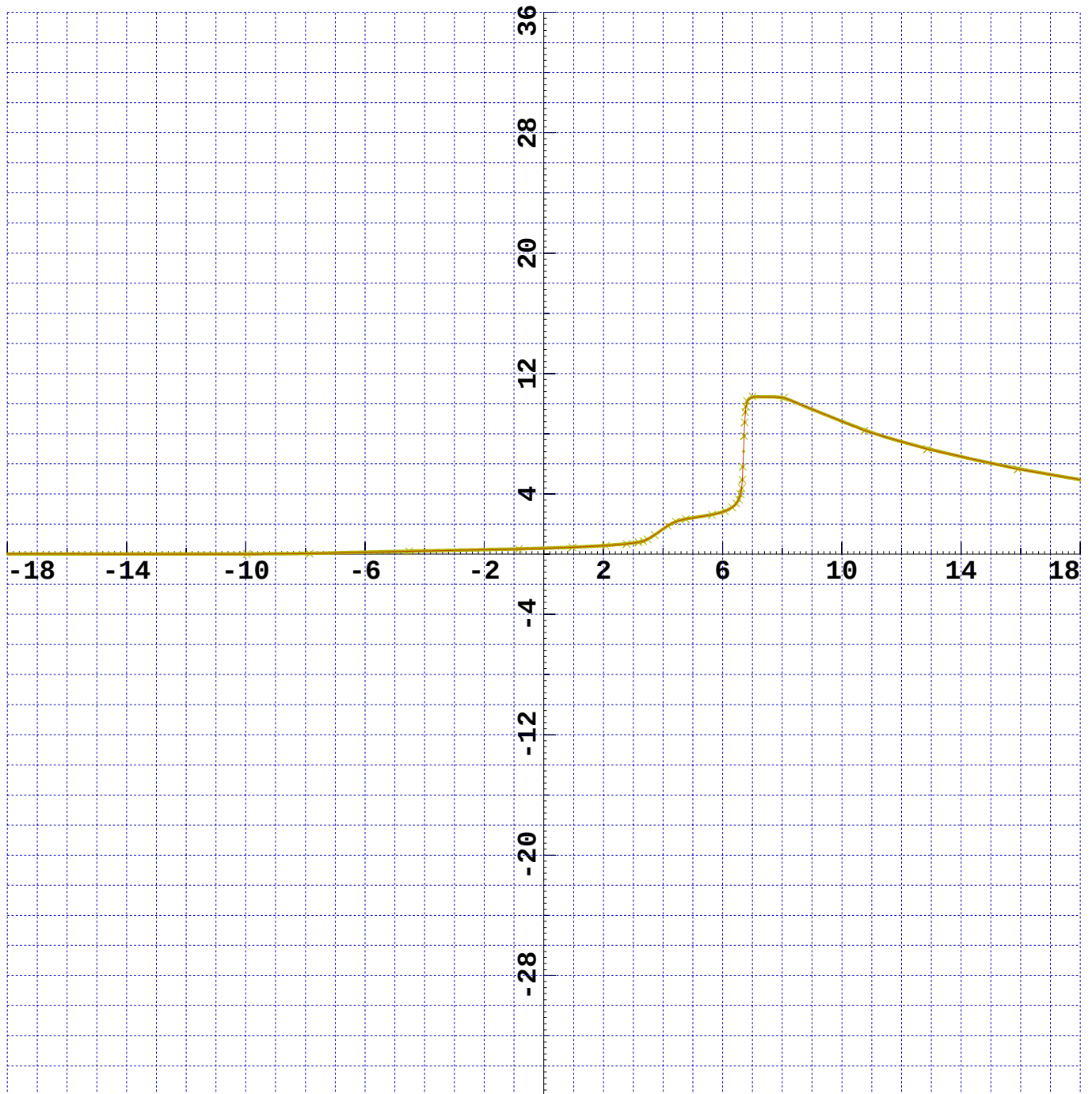




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

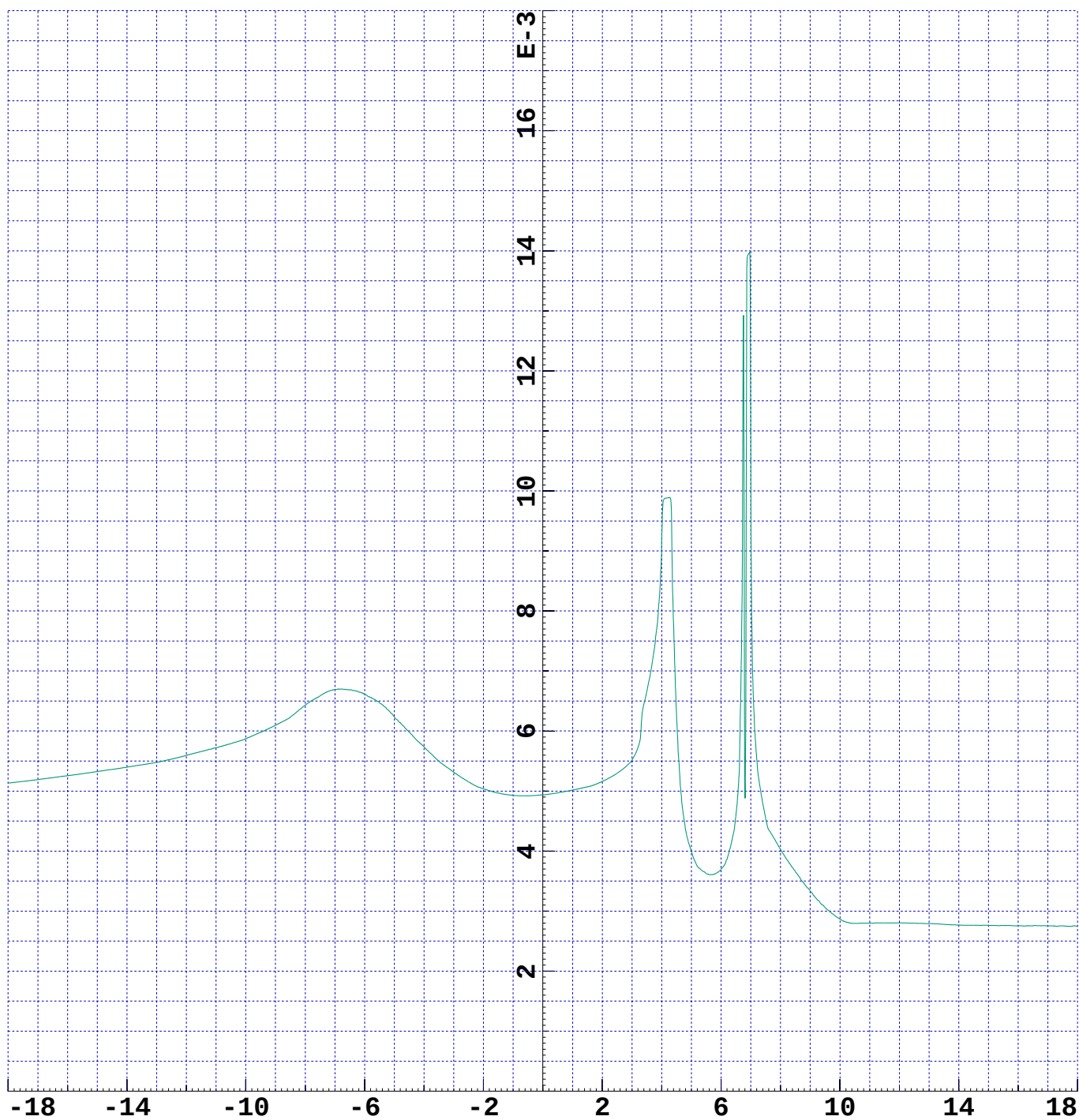
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

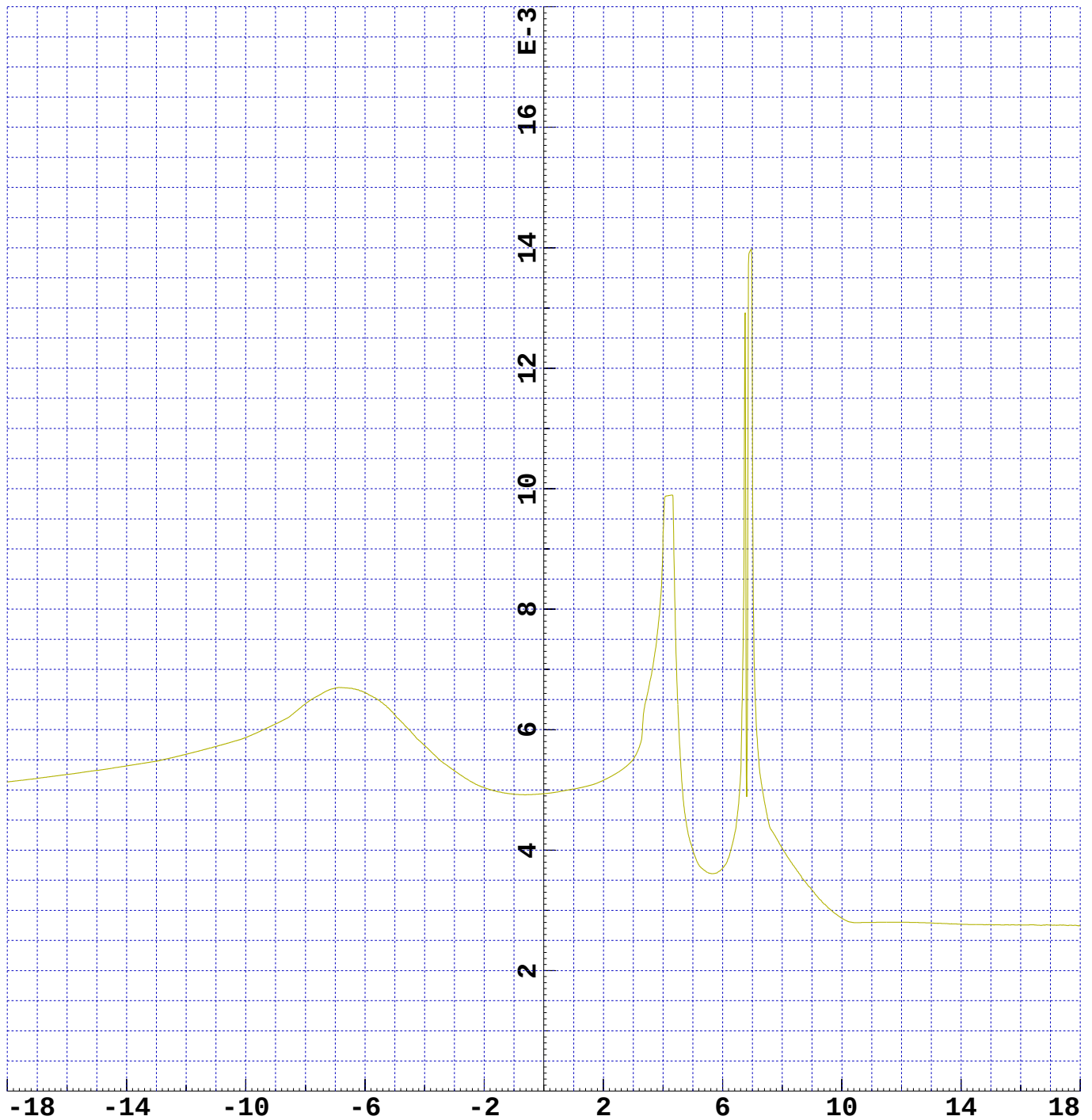
ZR1

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel C_r
 Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

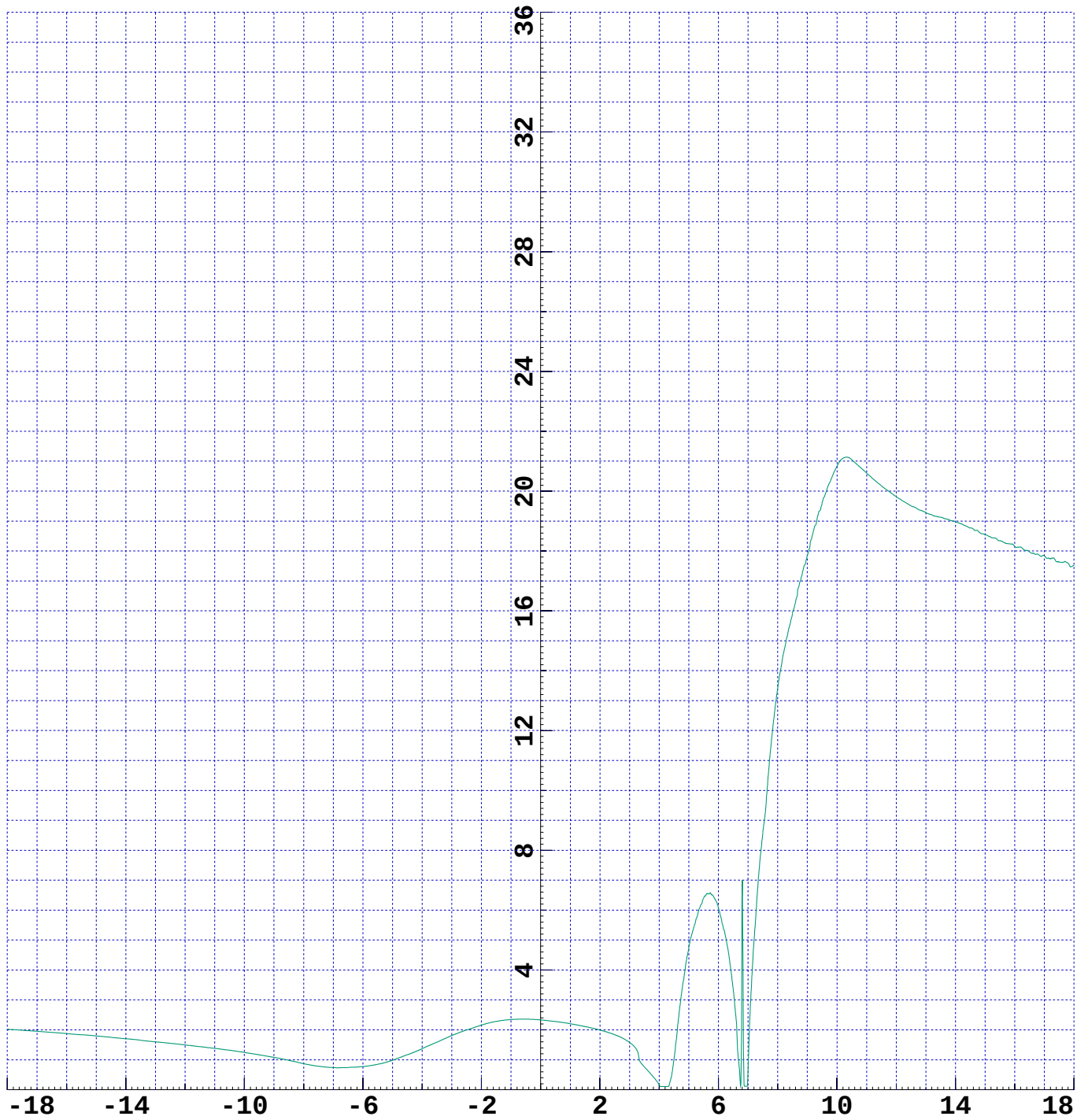
Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

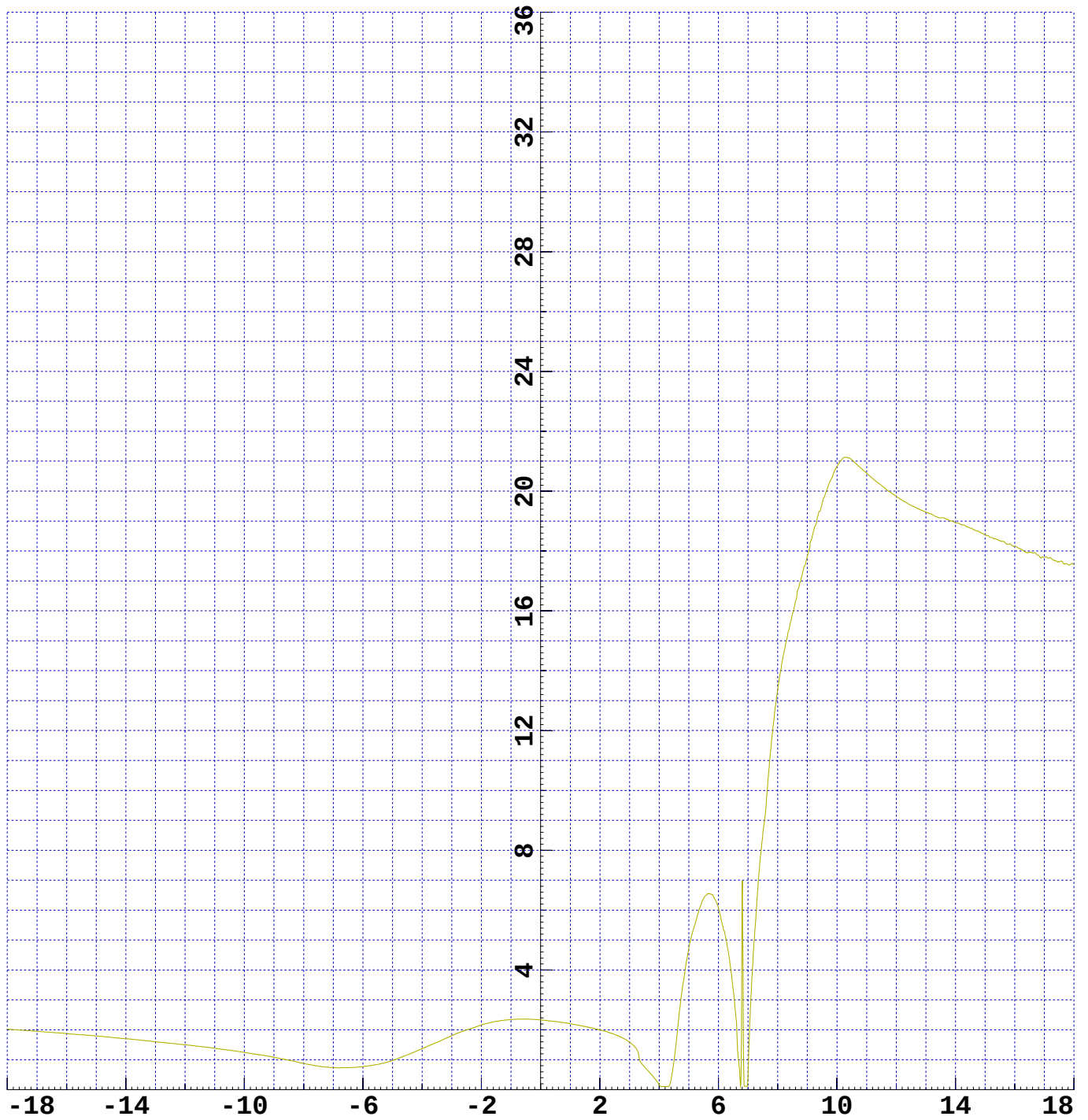
C_l

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011



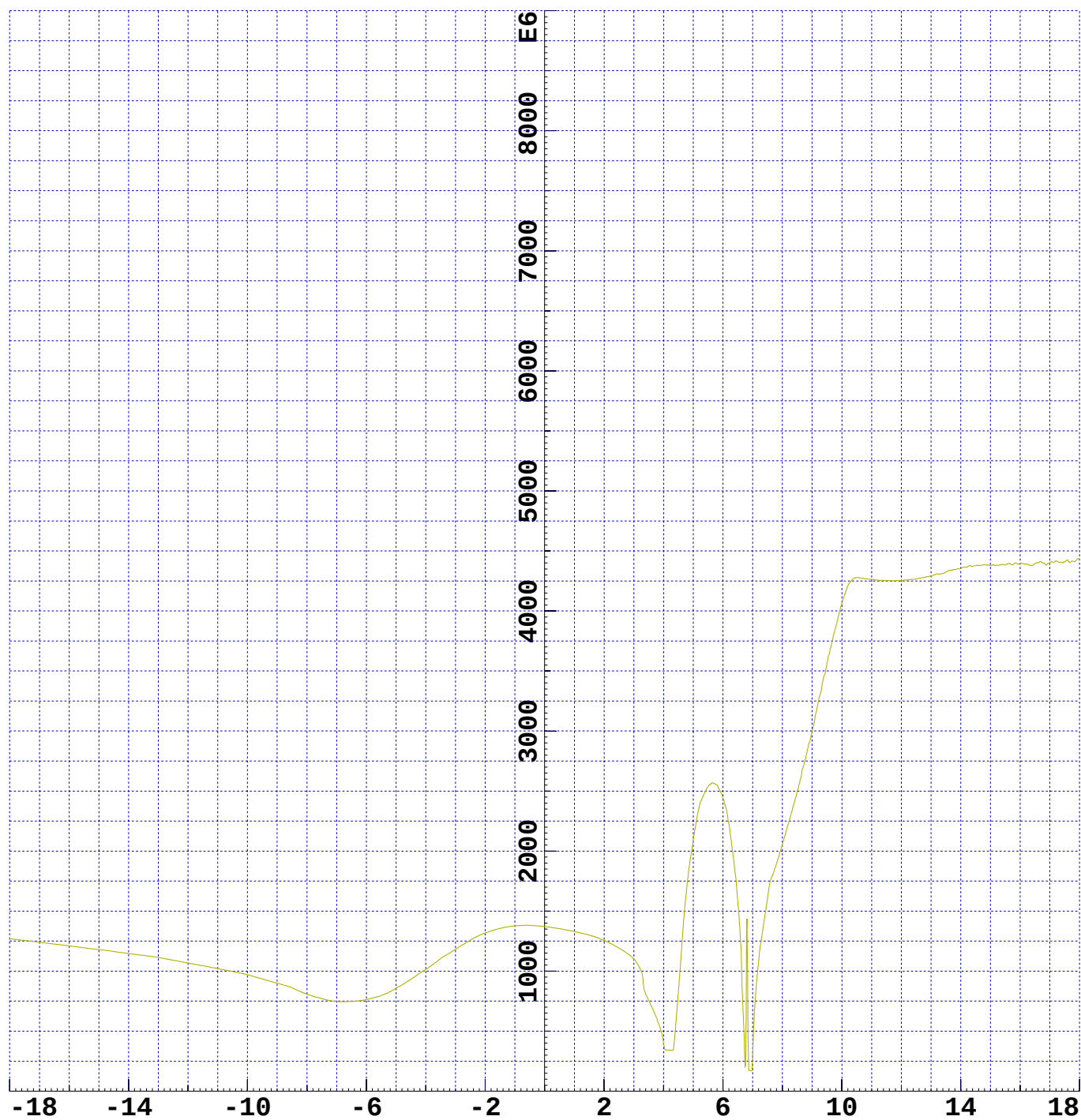
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
 Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011

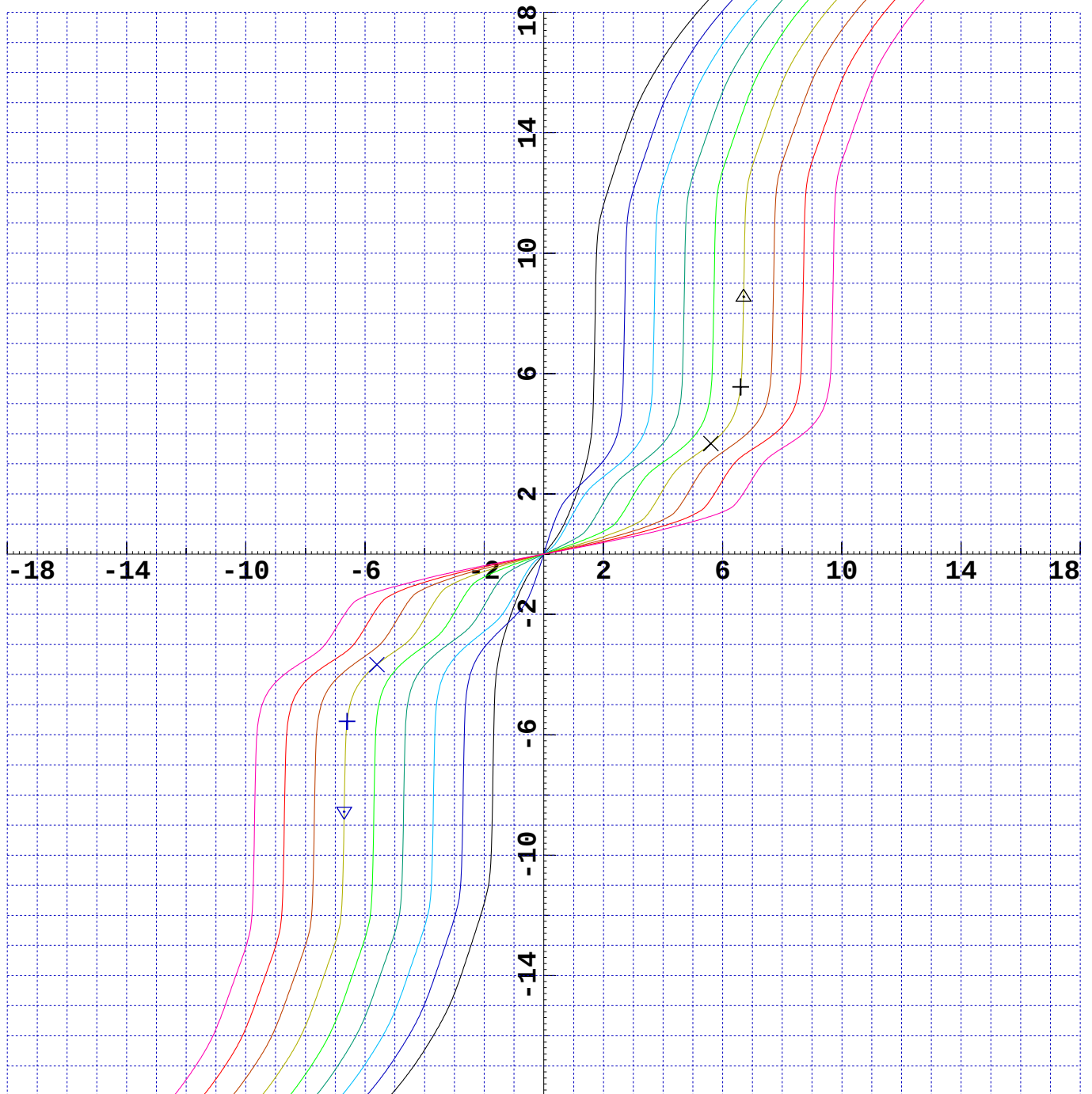
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

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

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/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
 wprof_lat_shift=0 Gauge= 1425-1441

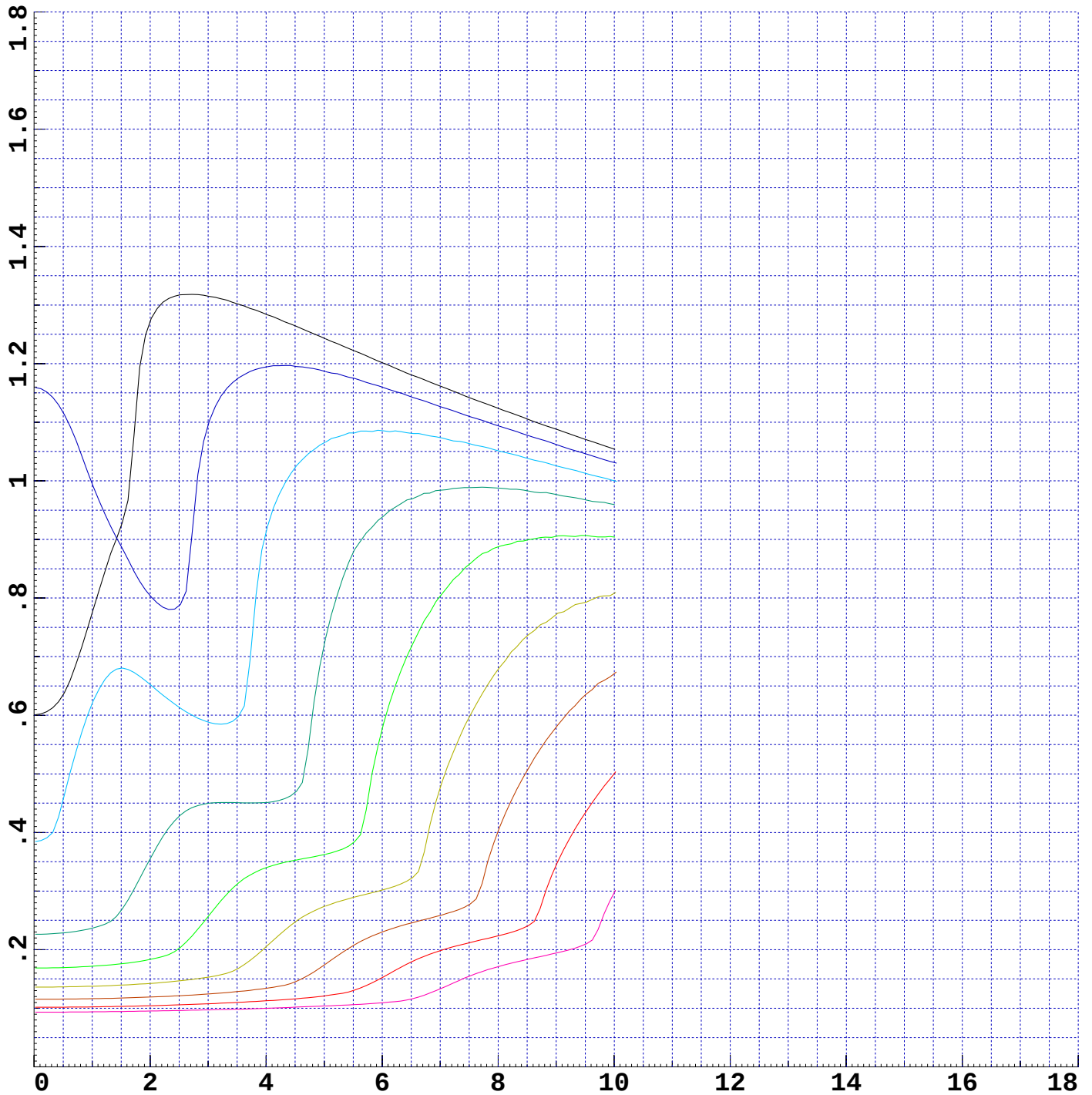
rr-rl

Ident: kpfr_011

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge= 1425	—	.602	.635	1.272	1.315	1.284	1.202
1427	—	1.158	1.117	.804	1.095	1.194	1.160
1429	—	.386	.456	.652	.588	.913	1.085
1431	—	.226	.229	.355	.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/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

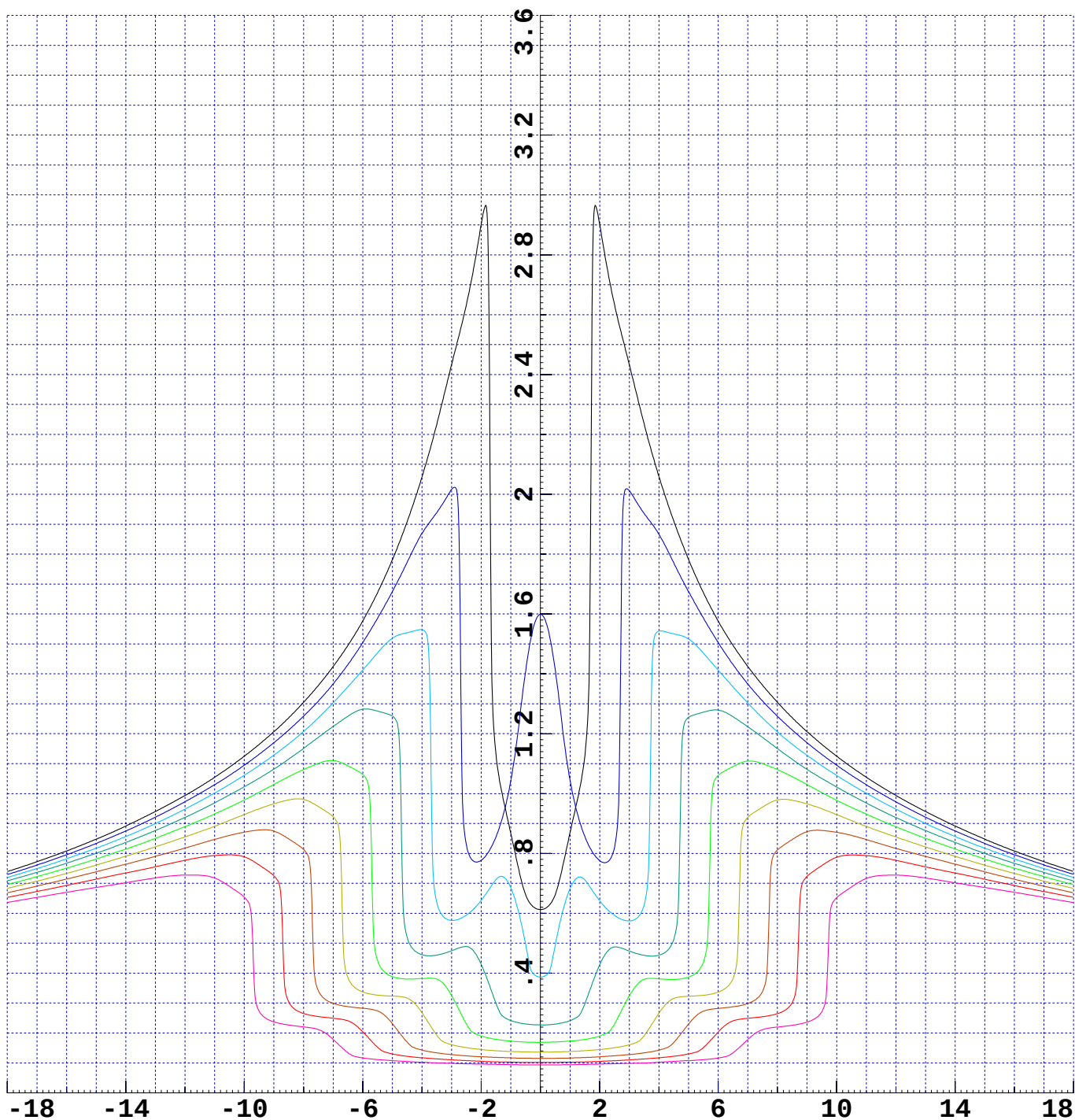
UIC519

Ident: kpfr_011

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	.614	.664	2.900	2.432	2.059	1.576
	1427	1.591	1.411	.776	2.012	1.866	1.504
	1429	.389	.494	.642	.575	1.543	1.412
	1431	.227	.230	.428	.474	.460	1.279
	1433	.169	.170	.190	.324	.381	1.061
	1435	.136	.137	.145	.161	.267	.336
	1437	.115	.116	.120	.128	.143	.282
	1439	.102	.102	.105	.110	.117	.204
	1441	.093	.093	.096	.098	.102	.117



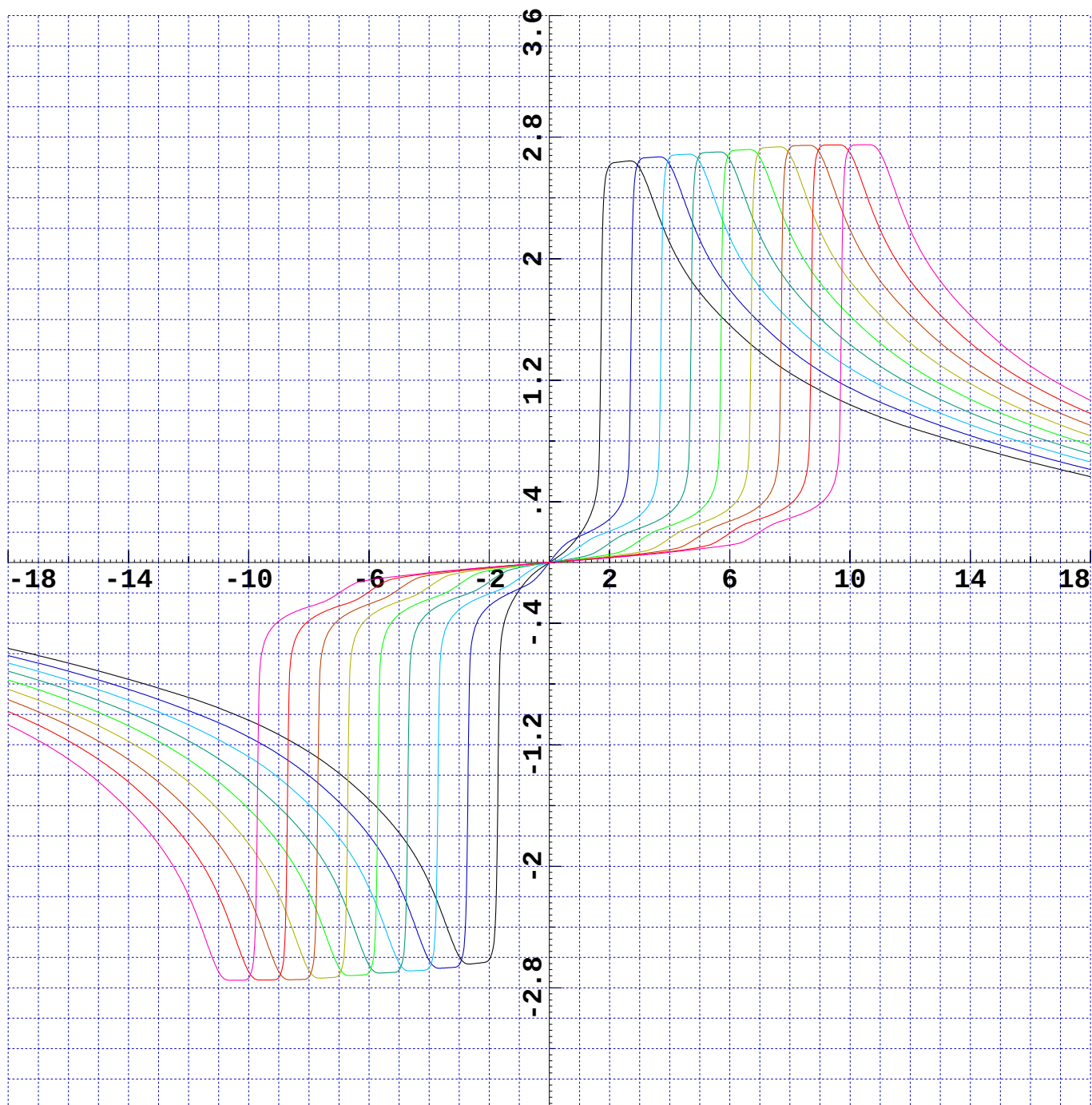
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

lambda

Ident: kpfr_011

GENSYS-KPF.1308

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

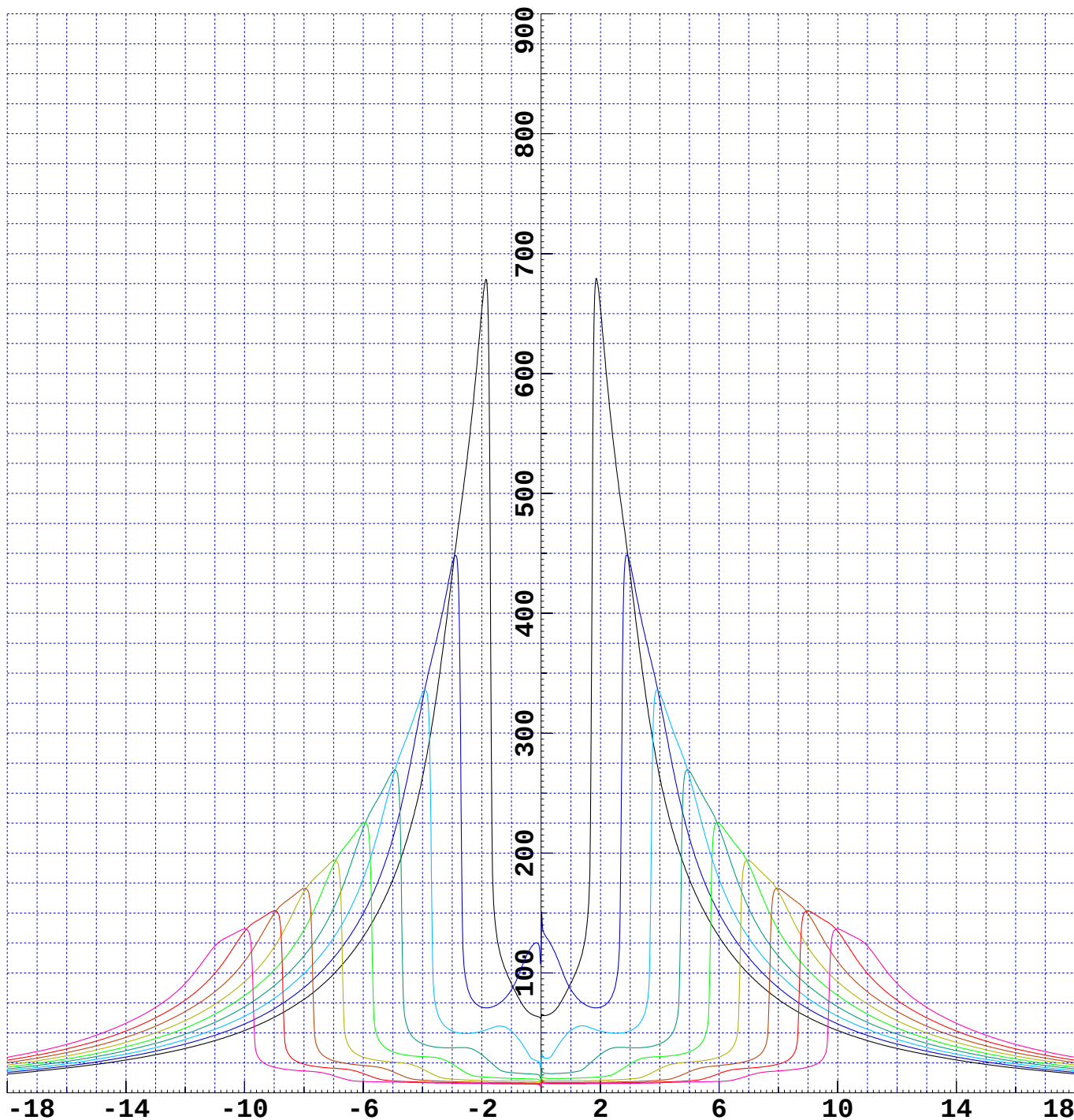


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel $\tan_{Ga}$
 Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	64.26	69.55	653.57	432.55	263.03	130.21
1427	—	133.00	115.09	71.48	441.33	327.43	149.64
1429	—	29.05	36.48	51.52	51.68	333.45	178.28
1431	—	16.57	16.18	32.04	37.62	40.89	220.96
1433	—	12.38	11.98	13.39	24.20	30.16	224.87
1435	—	10.16	9.80	10.33	11.52	20.02	29.81
1437	—	8.86	8.54	8.83	9.39	10.55	22.75
1439	—	8.12	7.82	8.03	8.43	9.00	16.11
1441	—	7.80	7.52	7.73	7.96	8.38	9.57

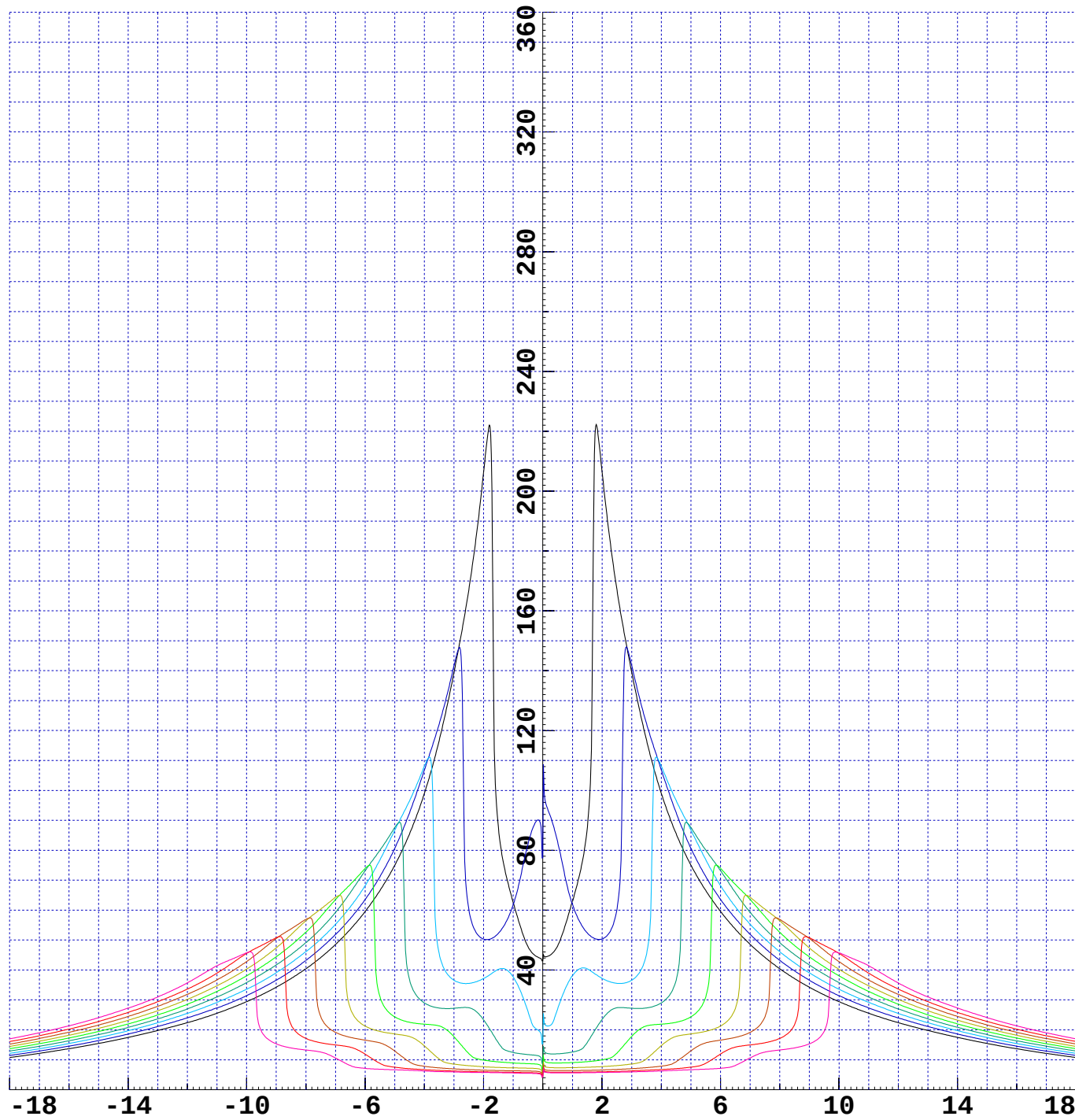


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel KAPPA
 Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_011

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	44.38	47.99	206.27	139.42	98.98	59.57
1427	—	95.75	82.85	50.36	141.68	106.81	63.57
1429	—	21.47	26.92	37.18	36.57	108.09	68.18
1431	—	12.31	12.01	23.53	27.23	29.01	73.20
1433	—	9.22	8.92	9.95	17.81	21.87	73.98
1435	—	7.57	7.31	7.70	8.58	14.76	21.25
1437	—	6.61	6.38	6.59	7.00	7.86	16.56
1439	—	6.07	5.85	6.00	6.29	6.72	11.91
1441	—	5.83	5.62	5.78	5.96	6.27	7.14



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC011_l.short.rail Right rail: r_prof/SEC011_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

EPS

Ident: kpfr_011

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	.43	.42	.66	1.09	1.25	1.28
1427	—	.32	.30	.30	.49	.85	1.09
1429	—	.17	.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	—	.10	.09	.09	.09	.10	.12
1439	—	.09	.08	.08	.08	.08	.09
1441	—	.08	.07	.07	.07	.07	.07

