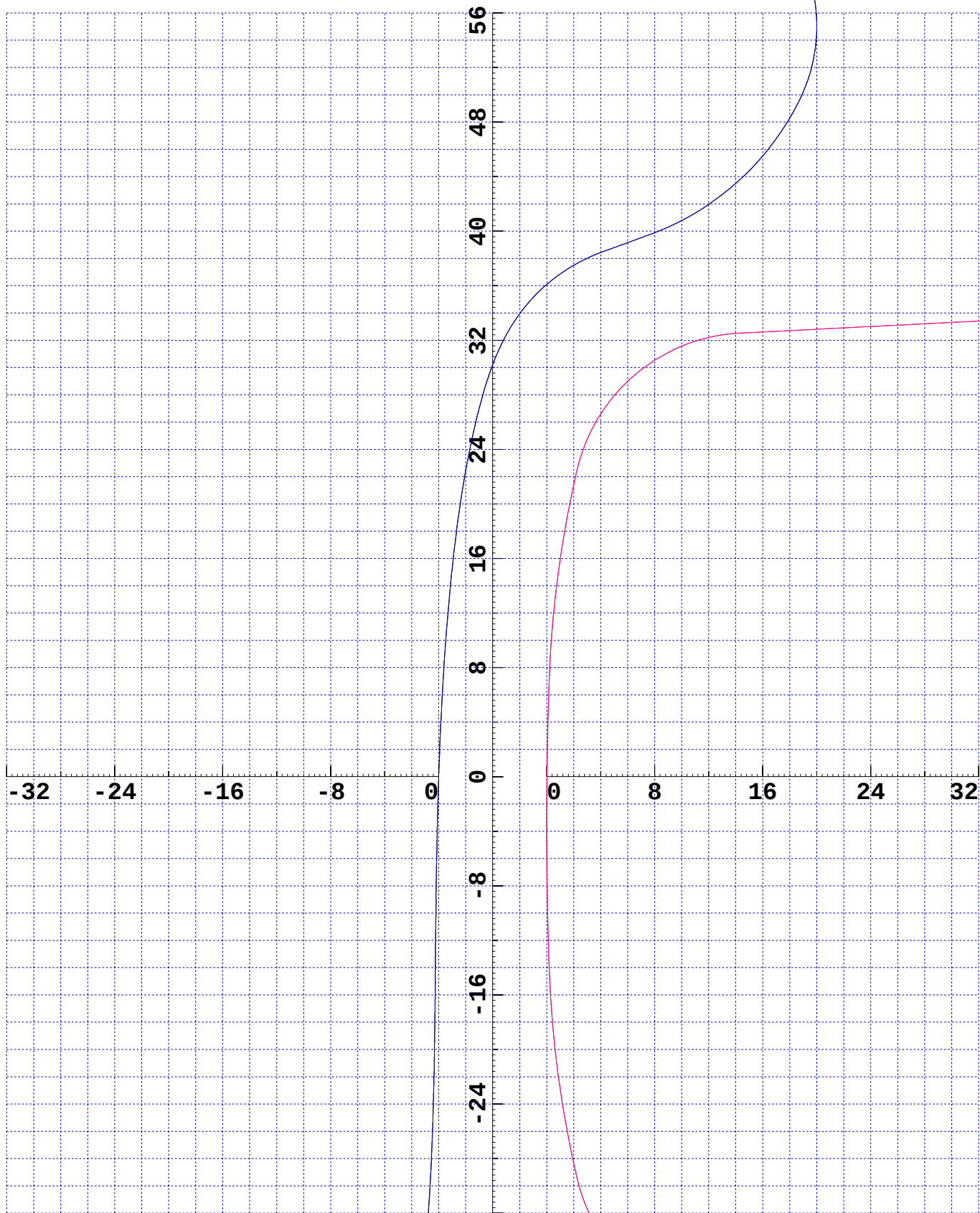
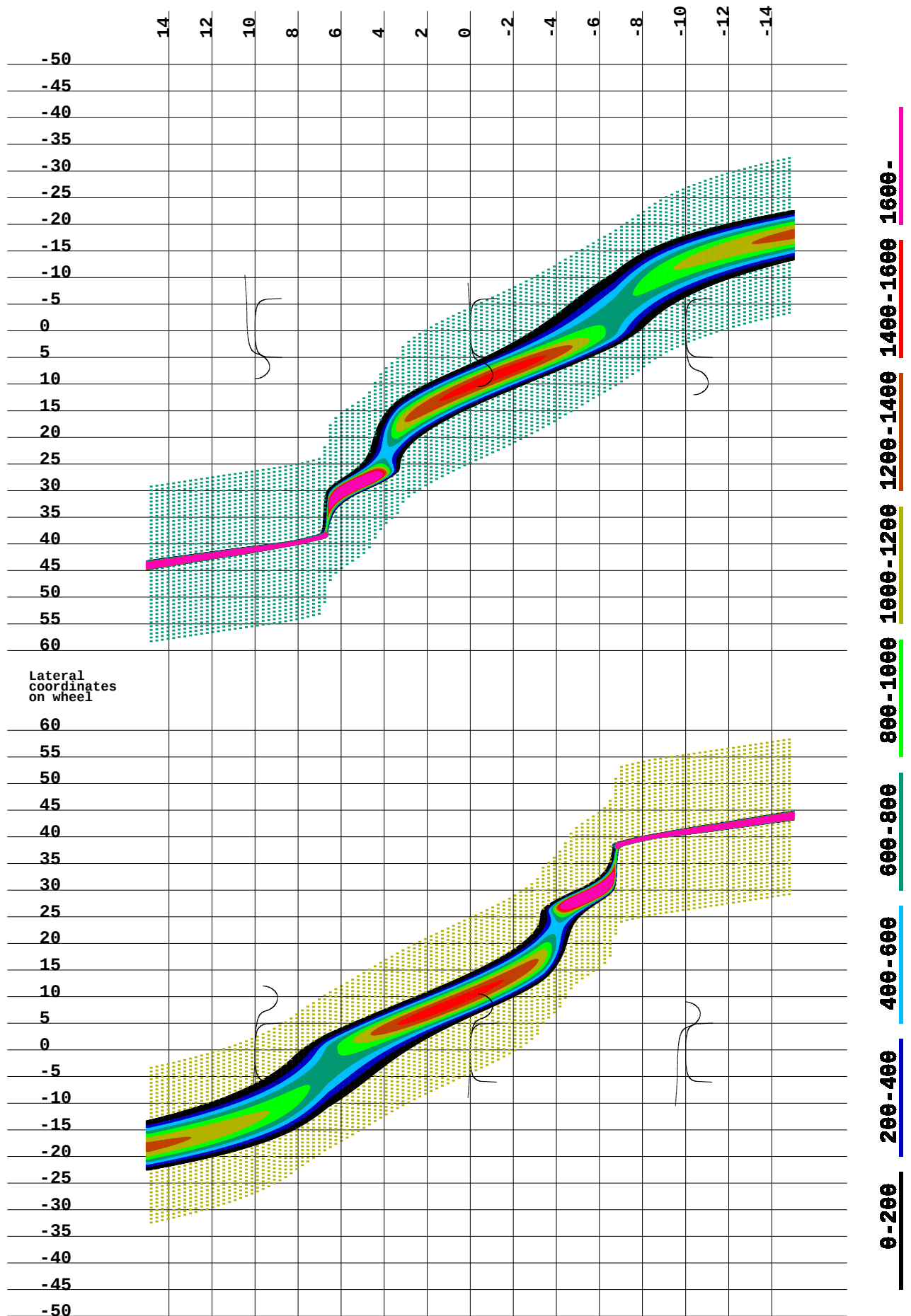


- Right wheel
- Left wheel
- Right rail
- Left rail



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012

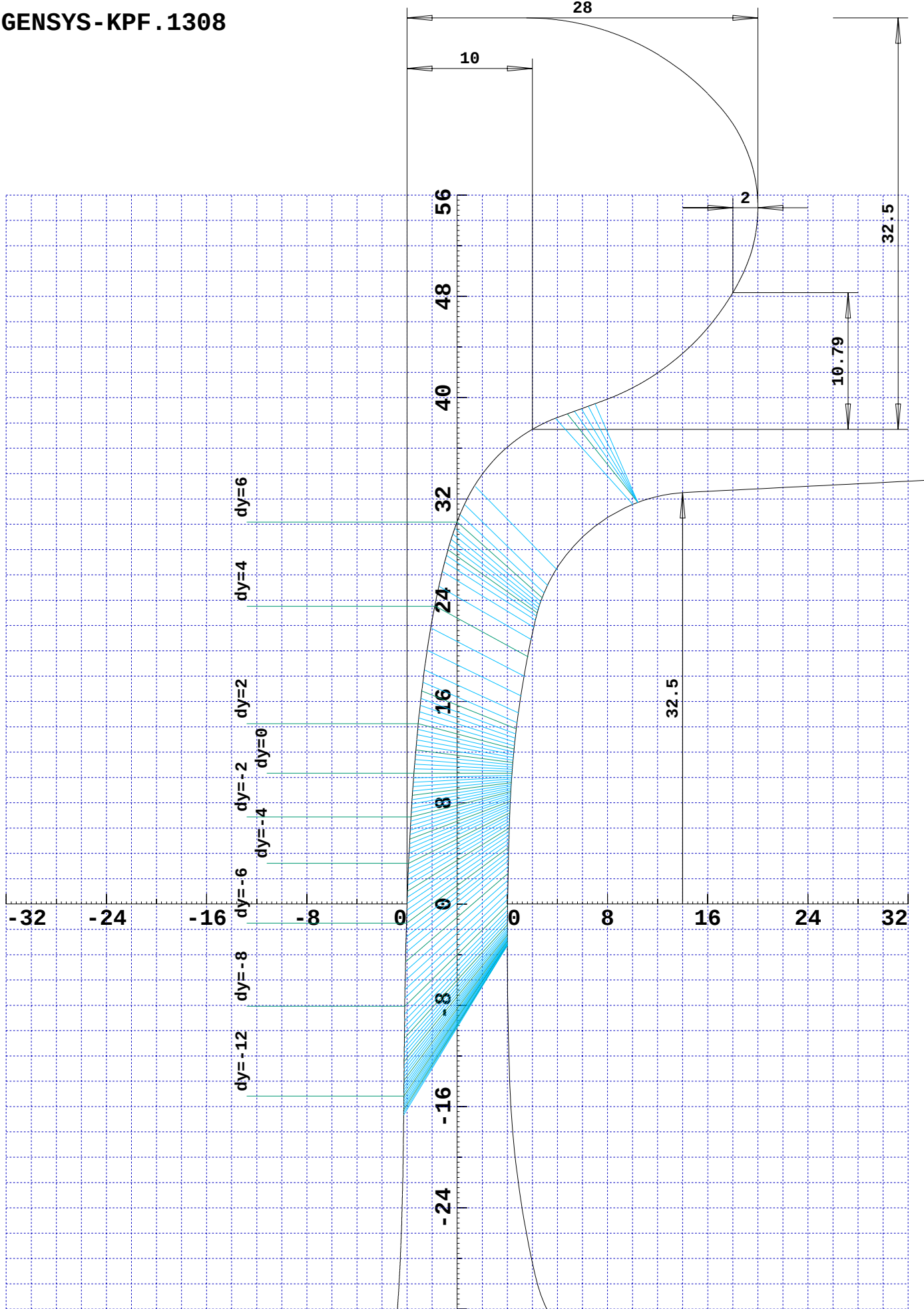


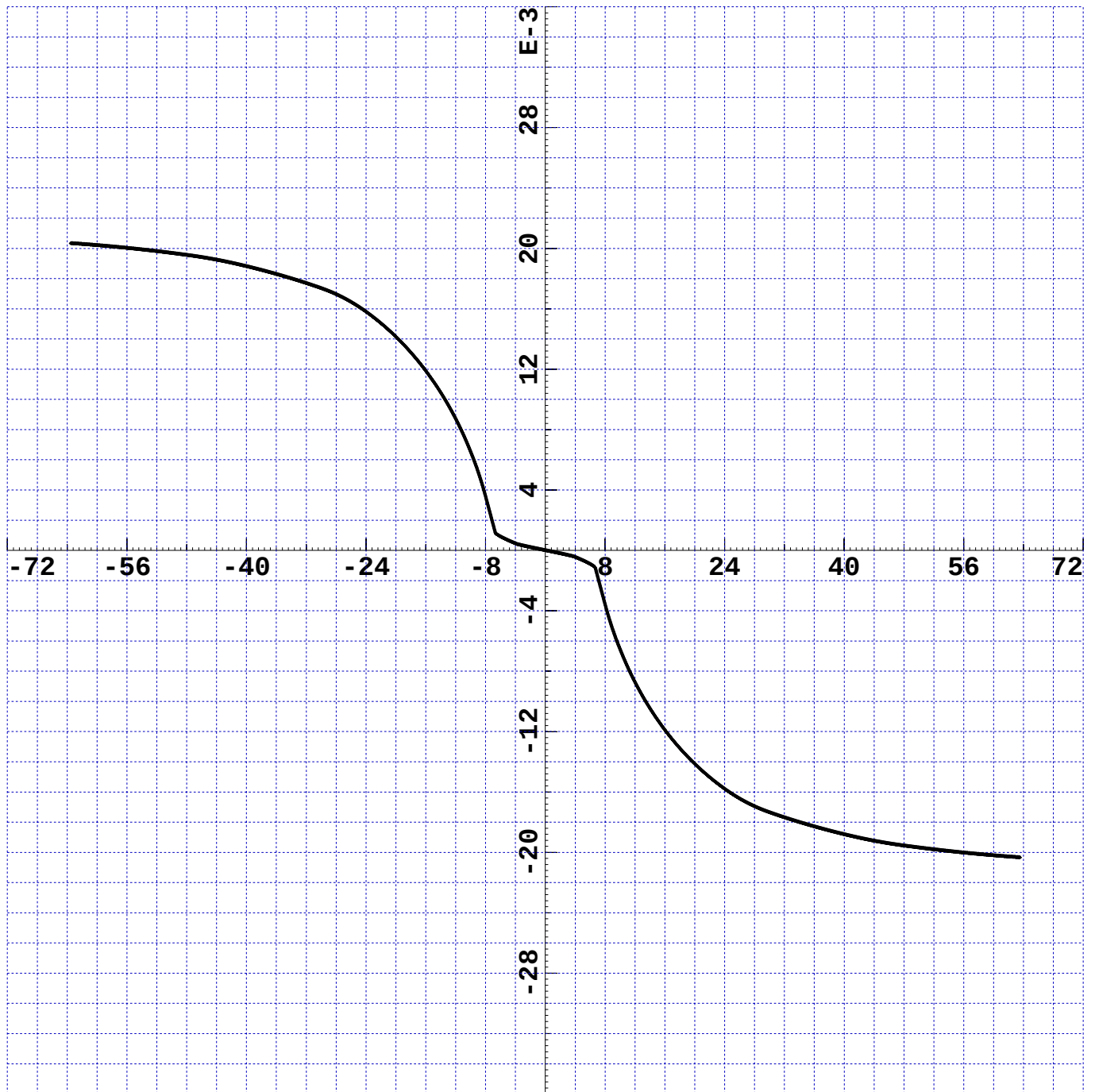
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel

Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.sho

Wprof_lat_shift= 0 Gauge= 1425-1441

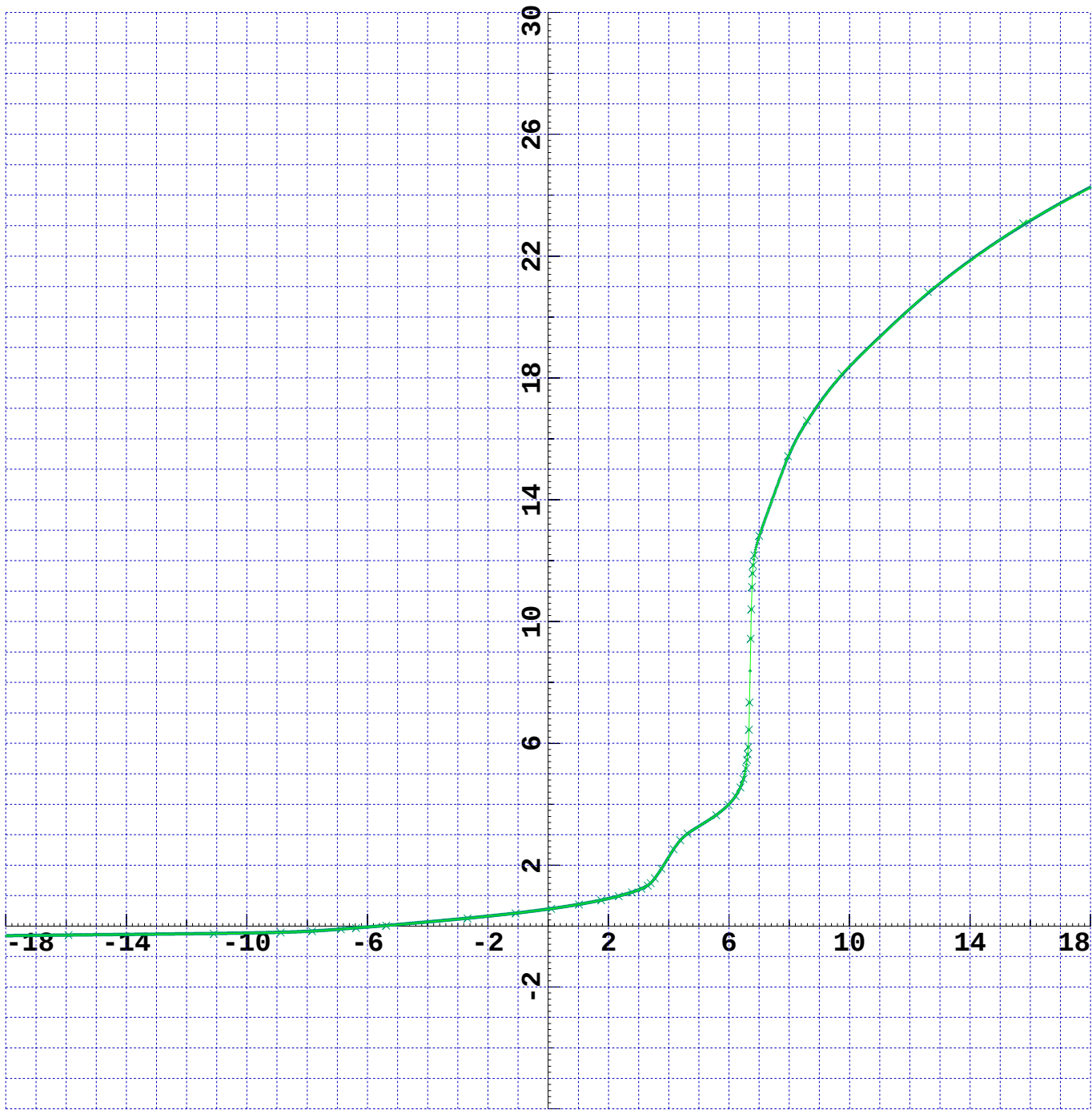
Contact Pressure

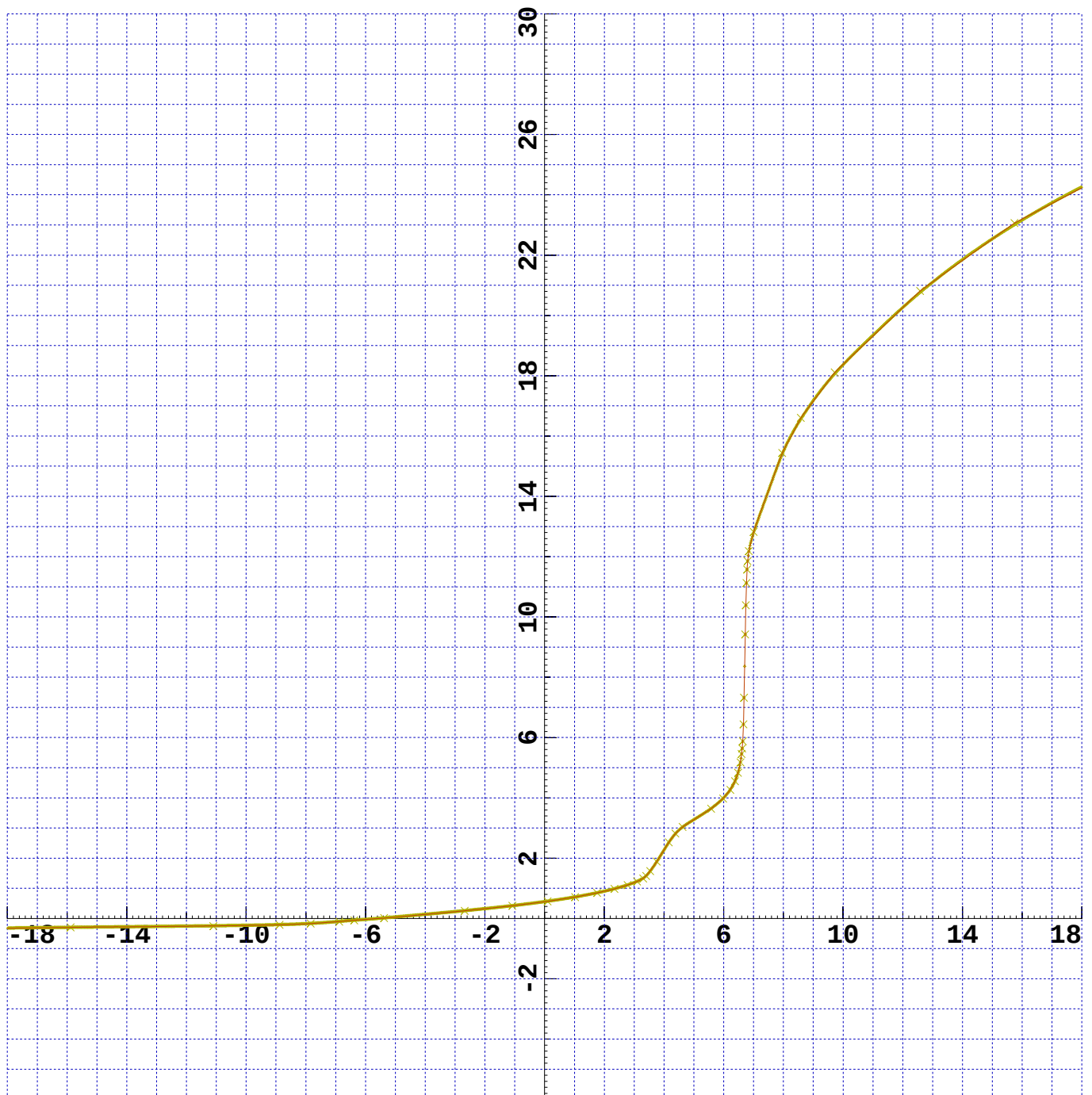




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flax1**
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012

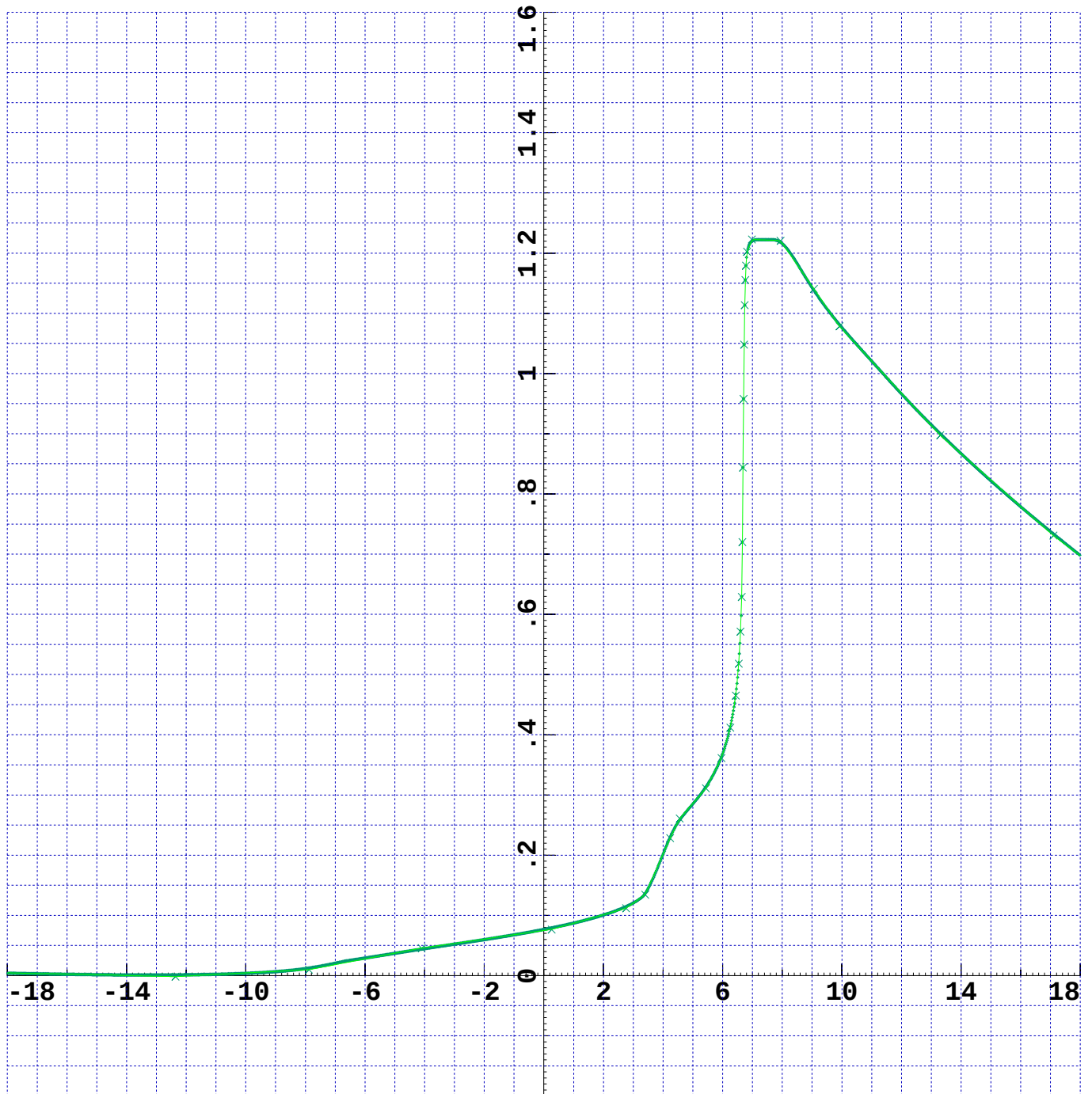




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

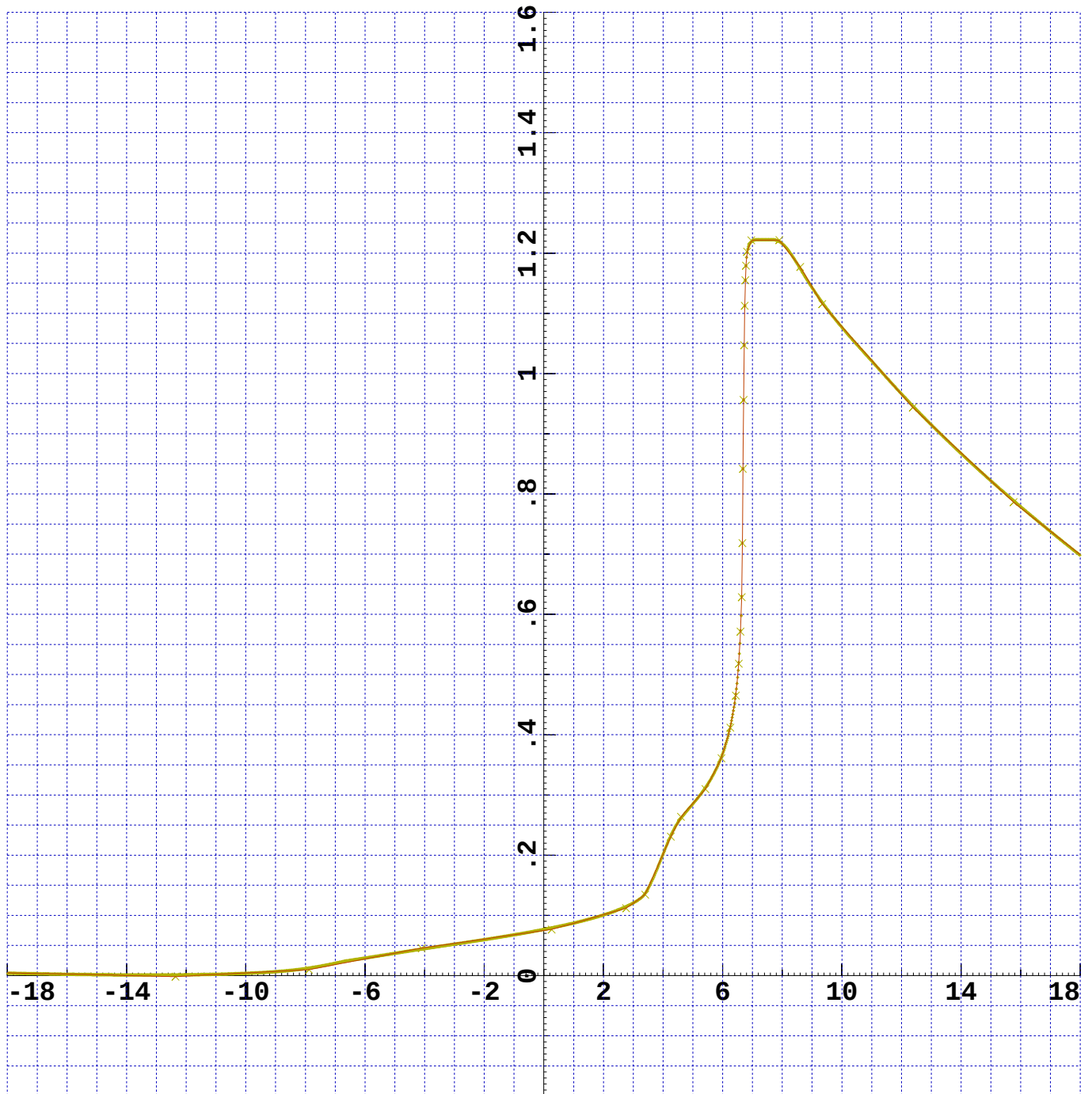
DRFN1

Ident: kpfr_012



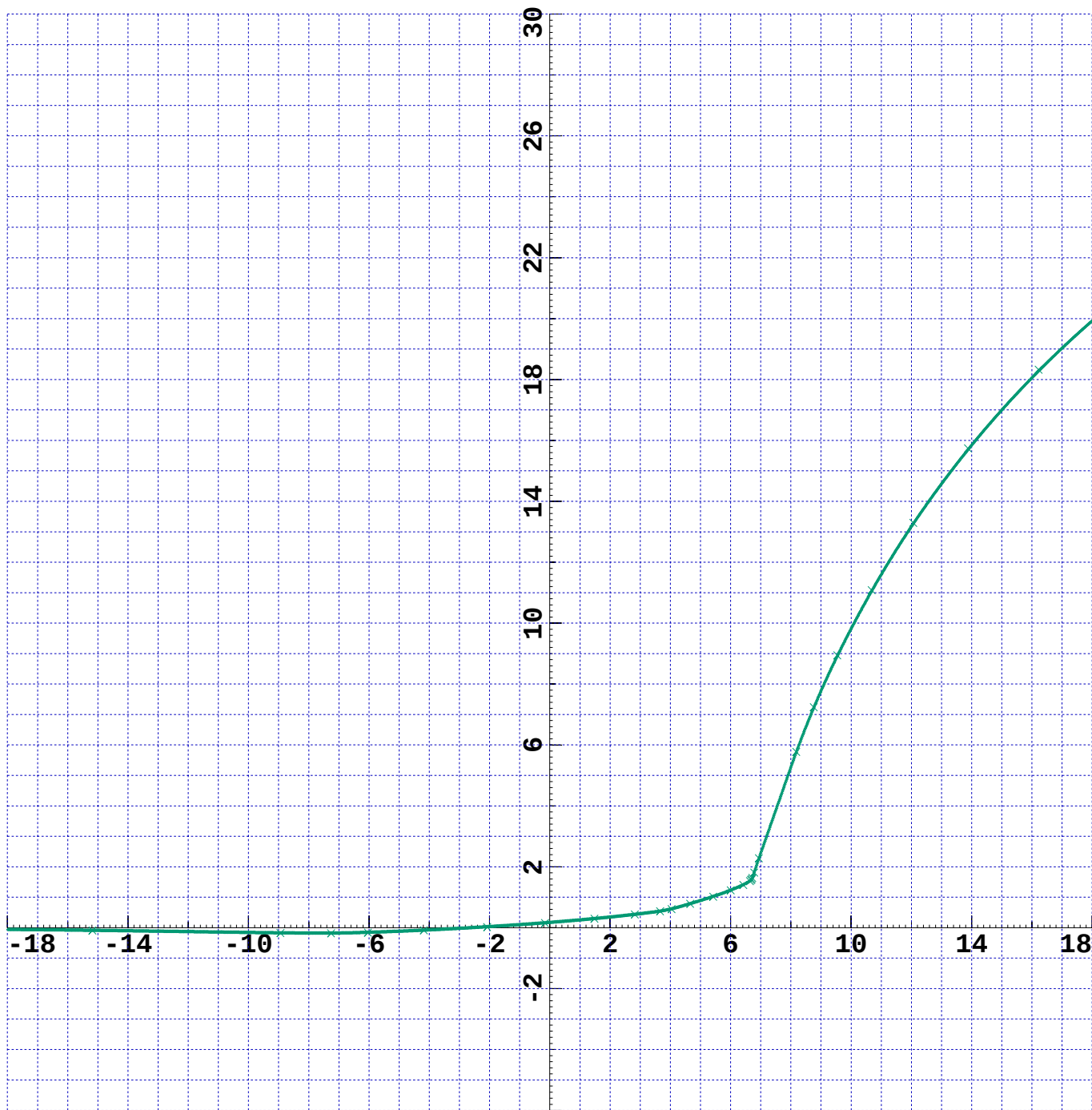
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFNr
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012



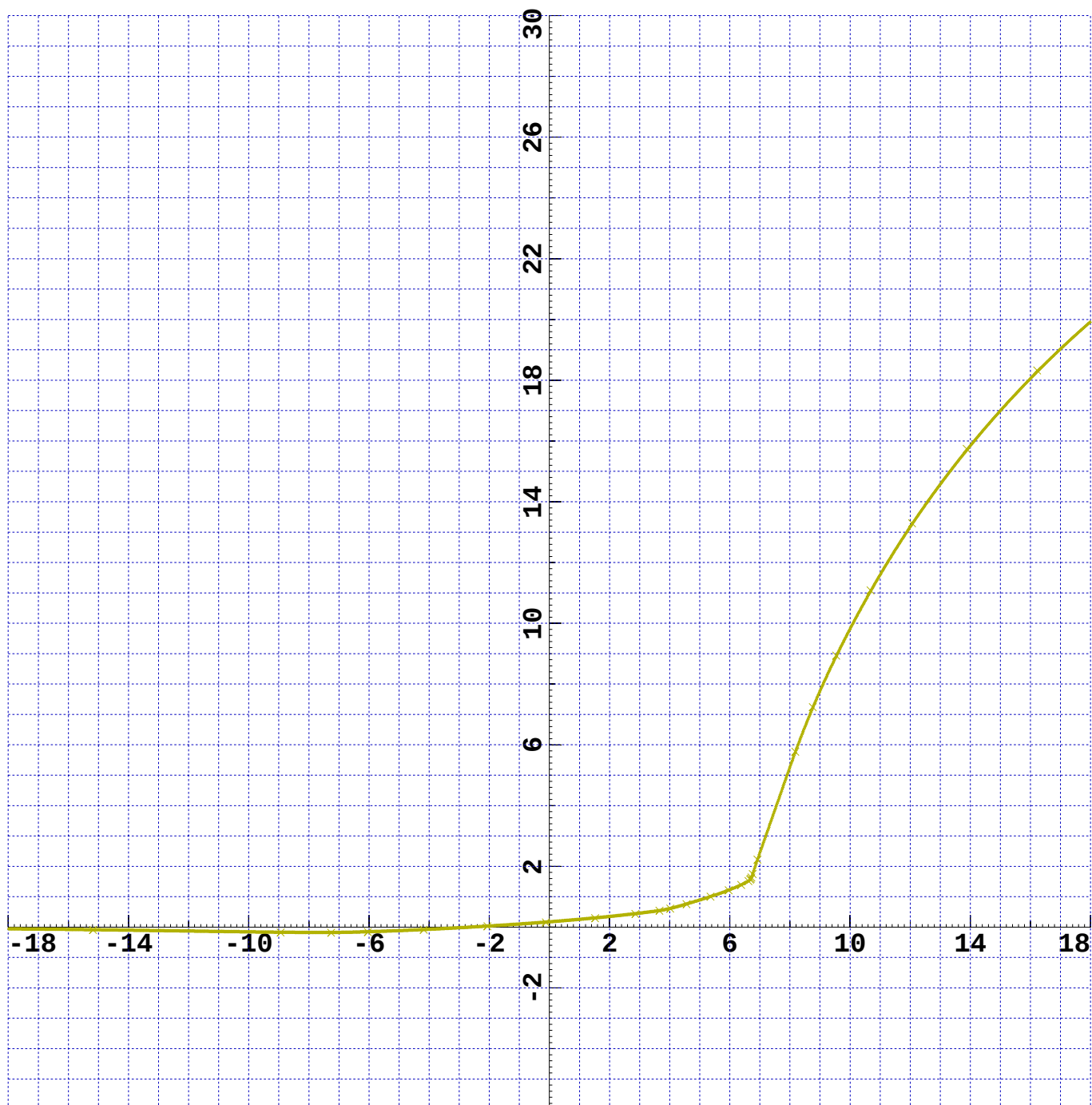
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFN1
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ZFNr
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFN1

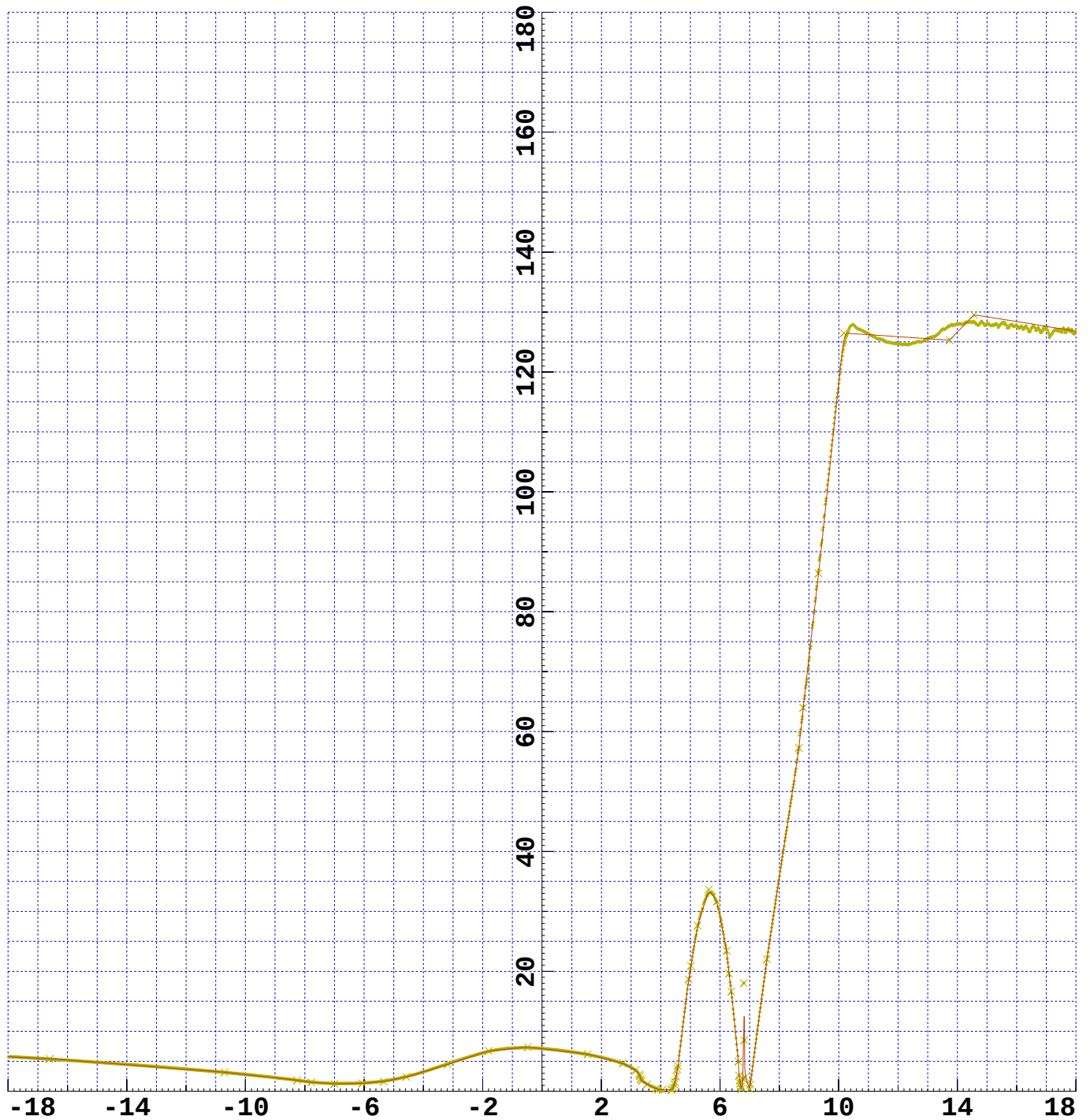
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

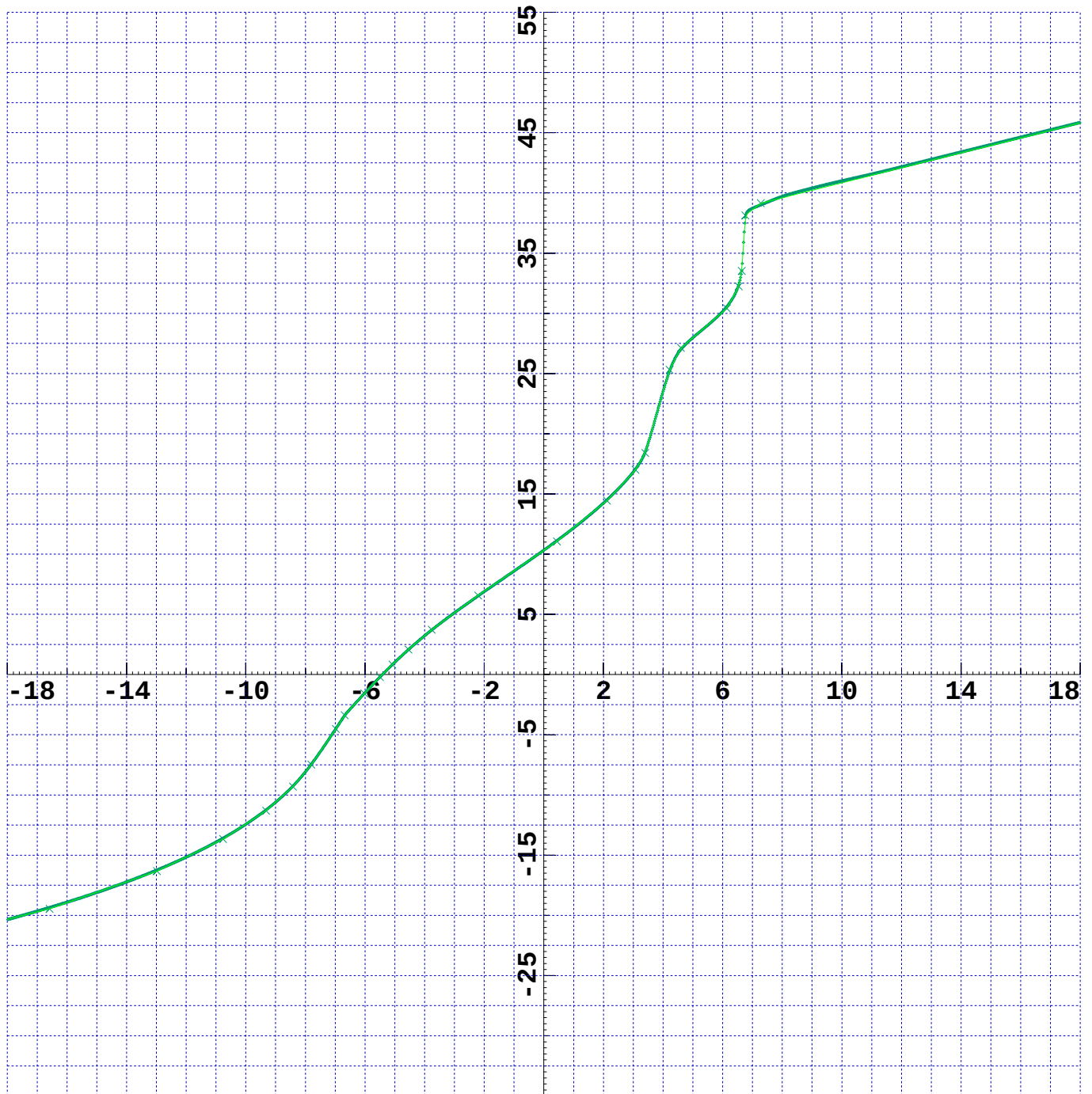
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFN1

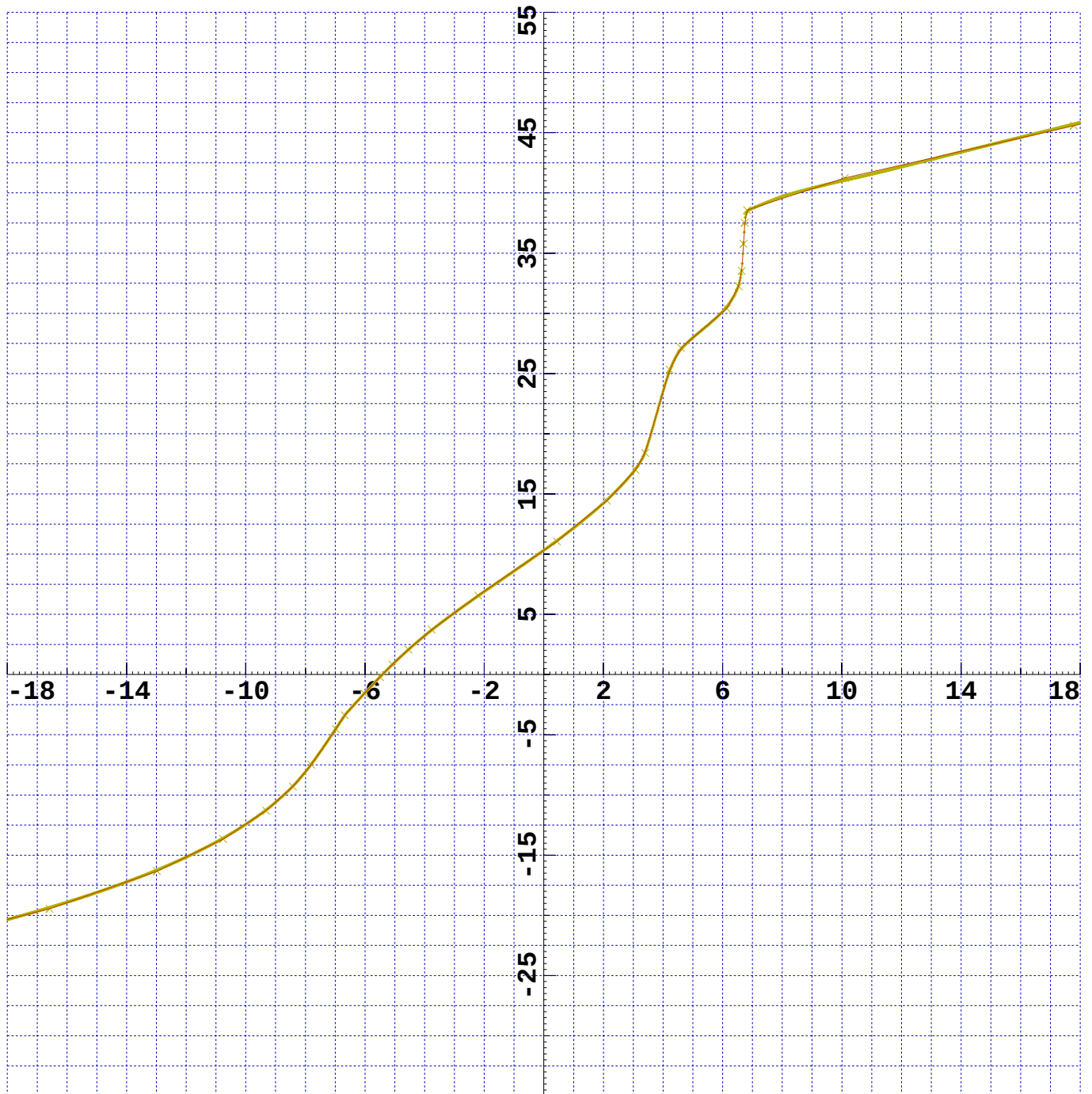
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSWr

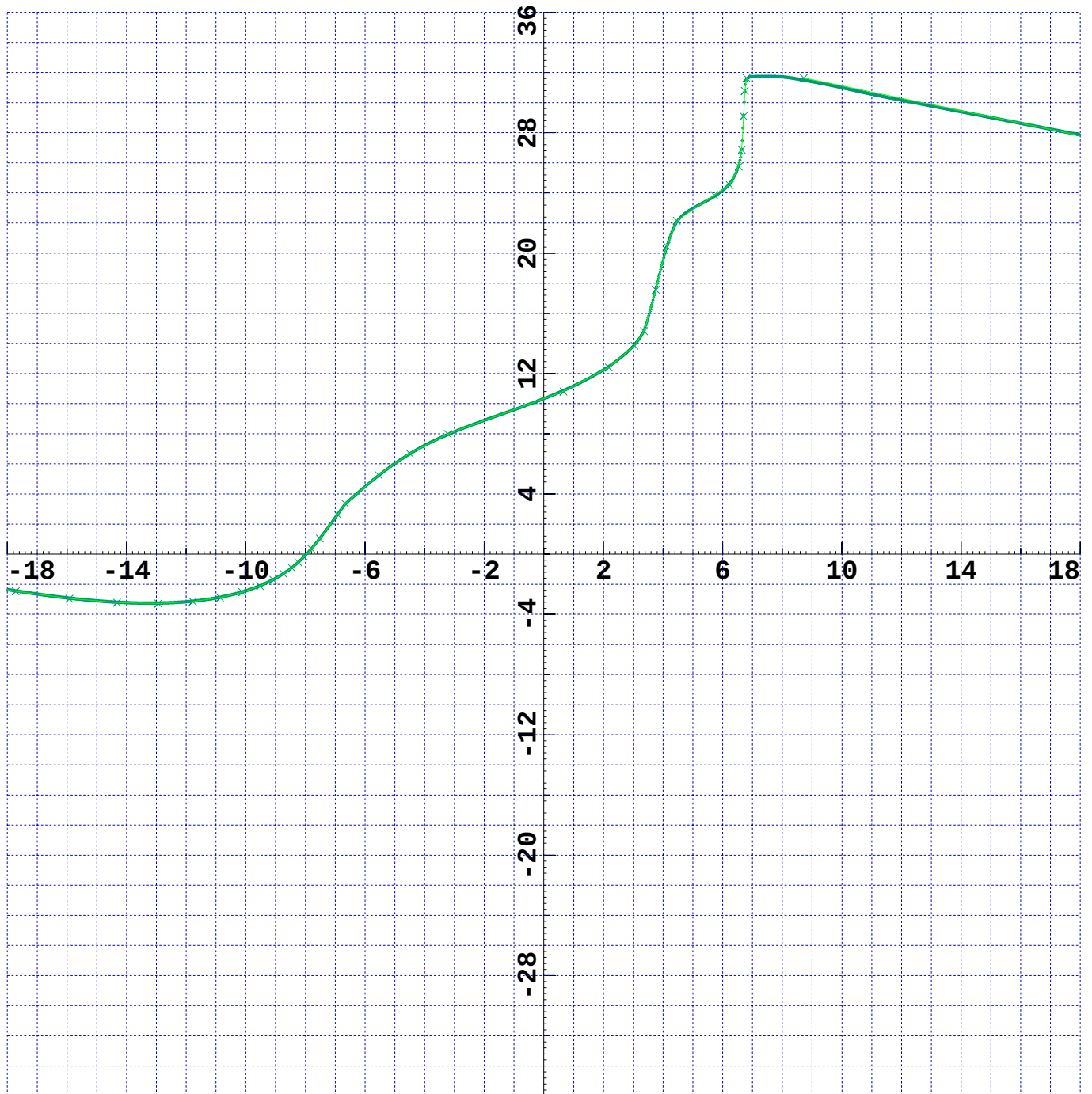
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSW1

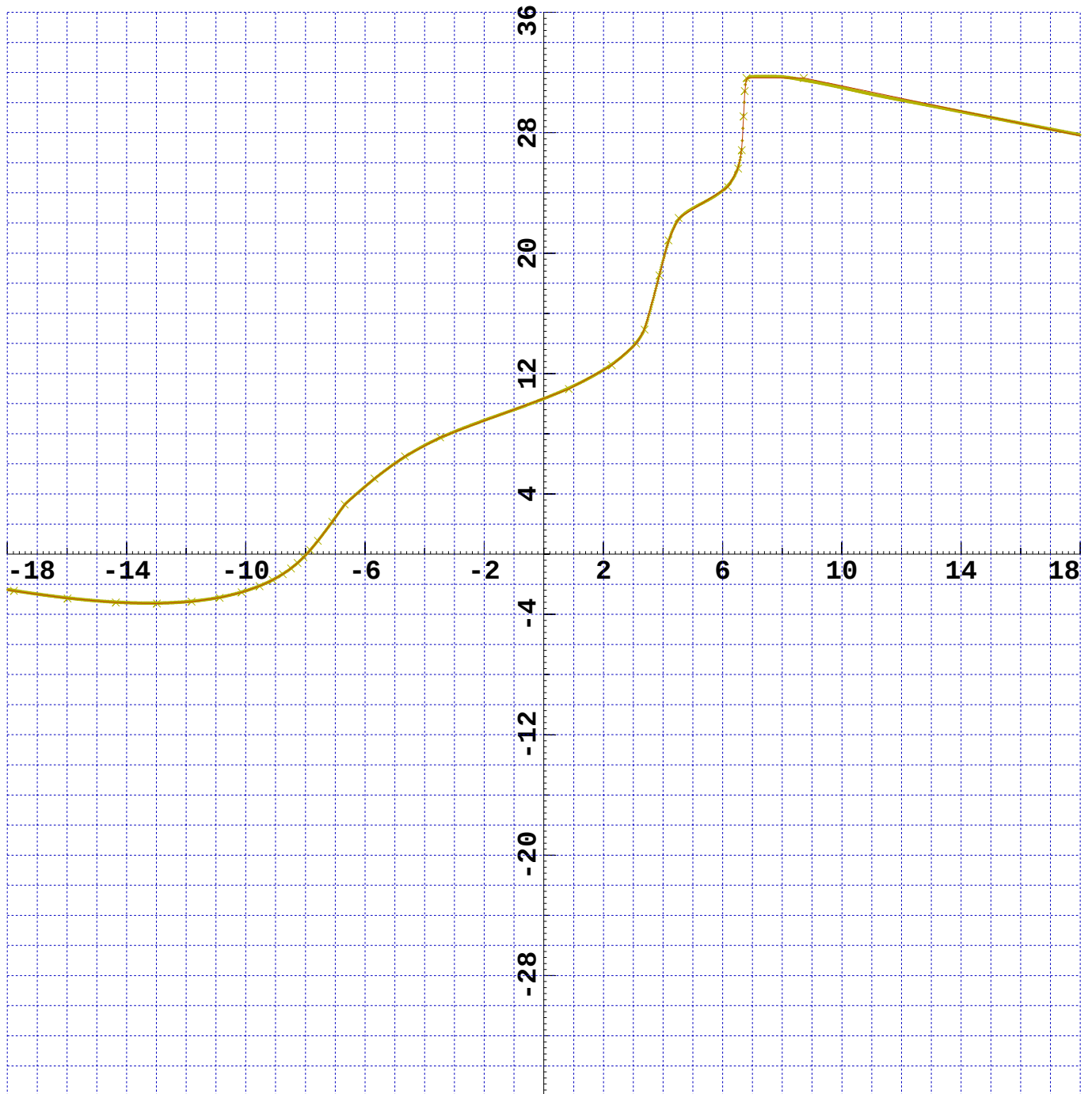
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSRR

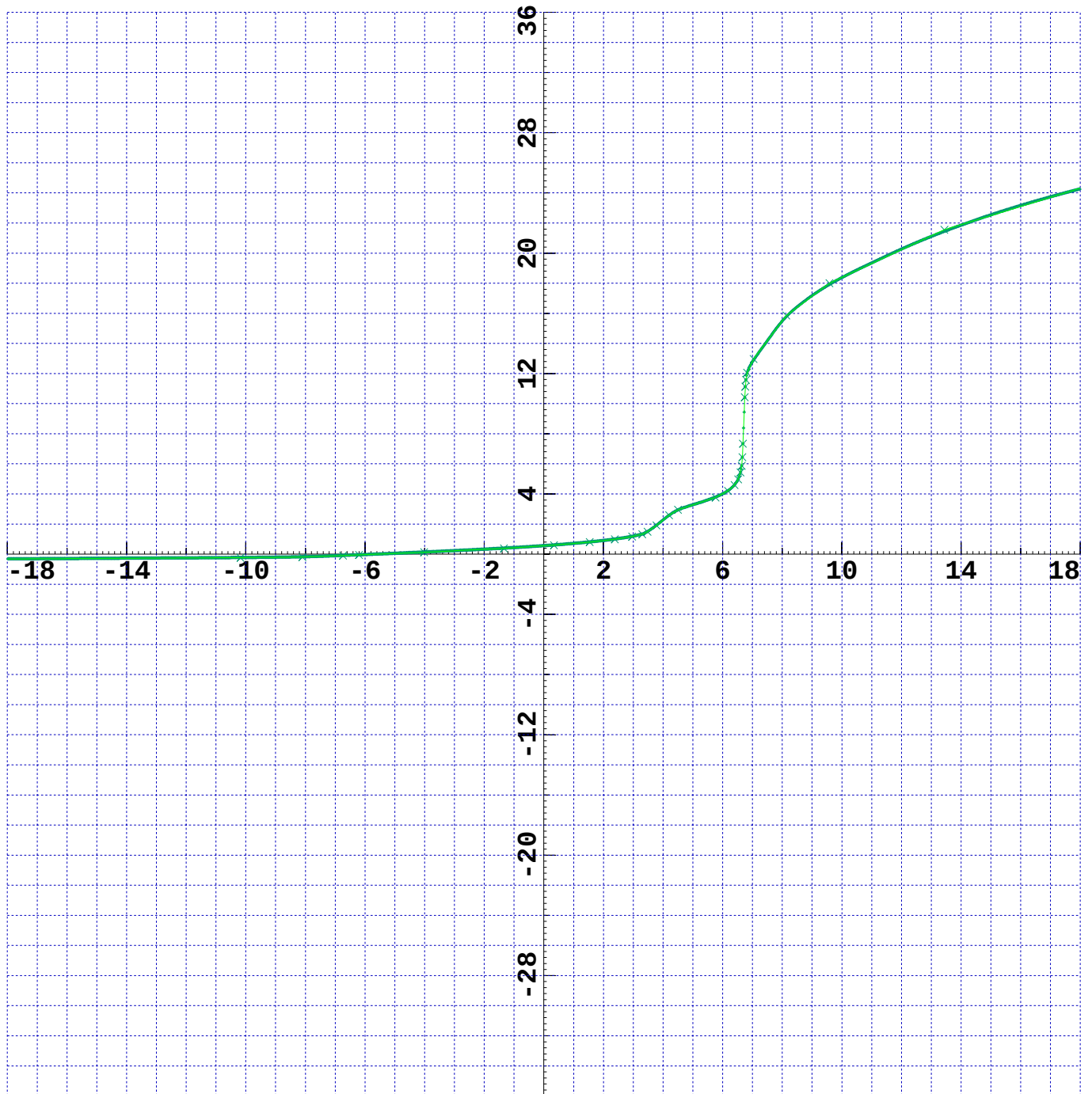
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSR1

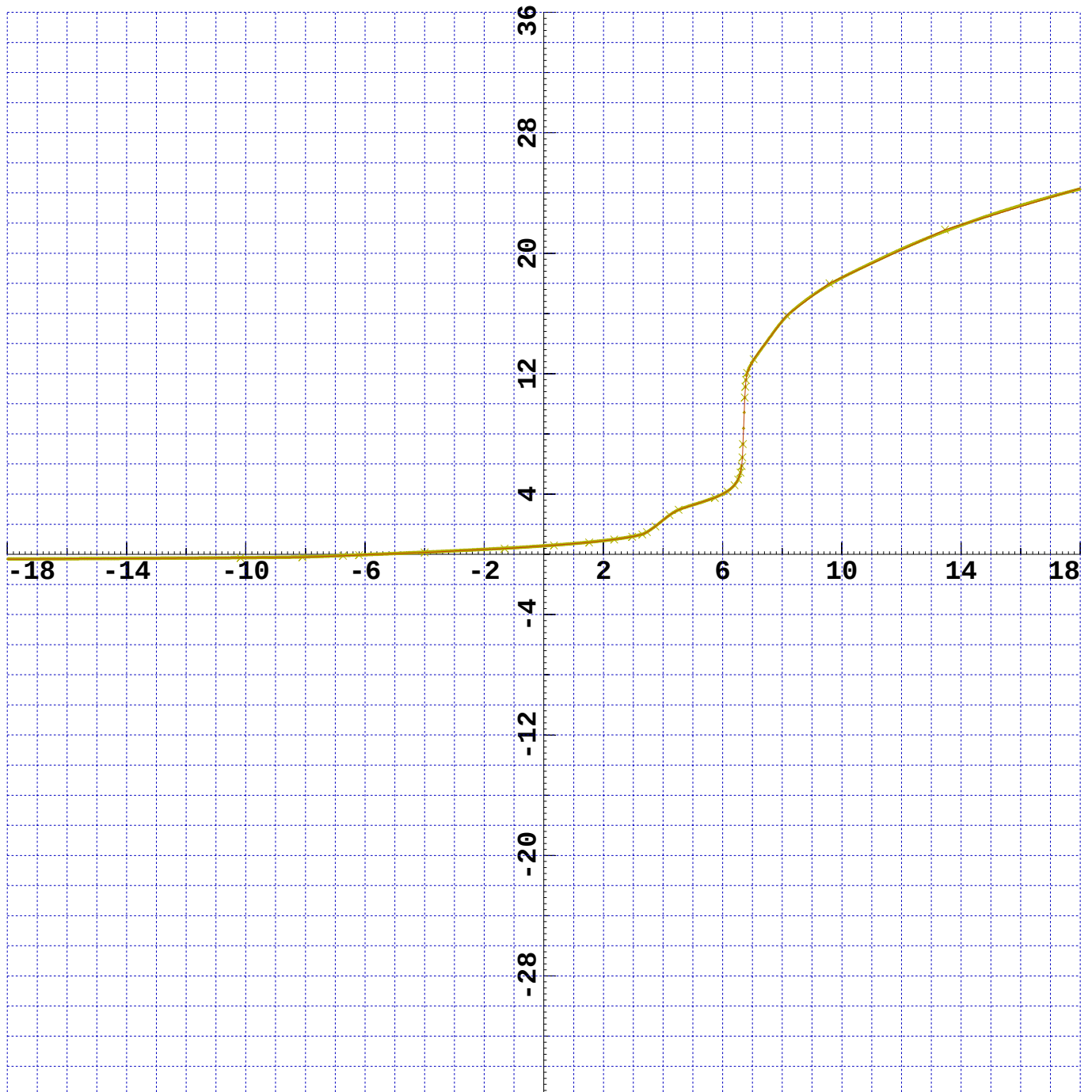
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

Ident: kpfr_012

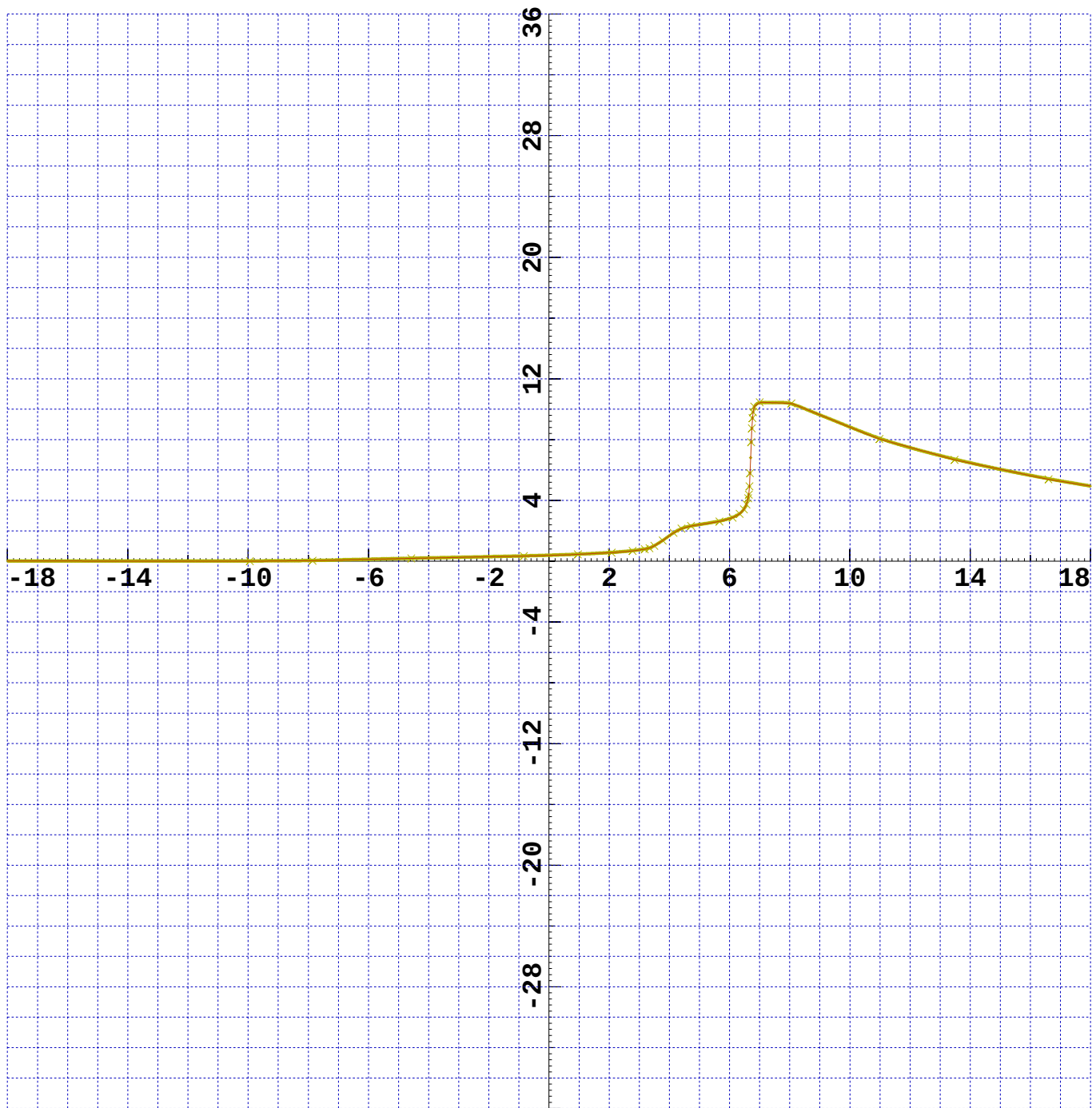


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZW1

Ident: kpfr_012

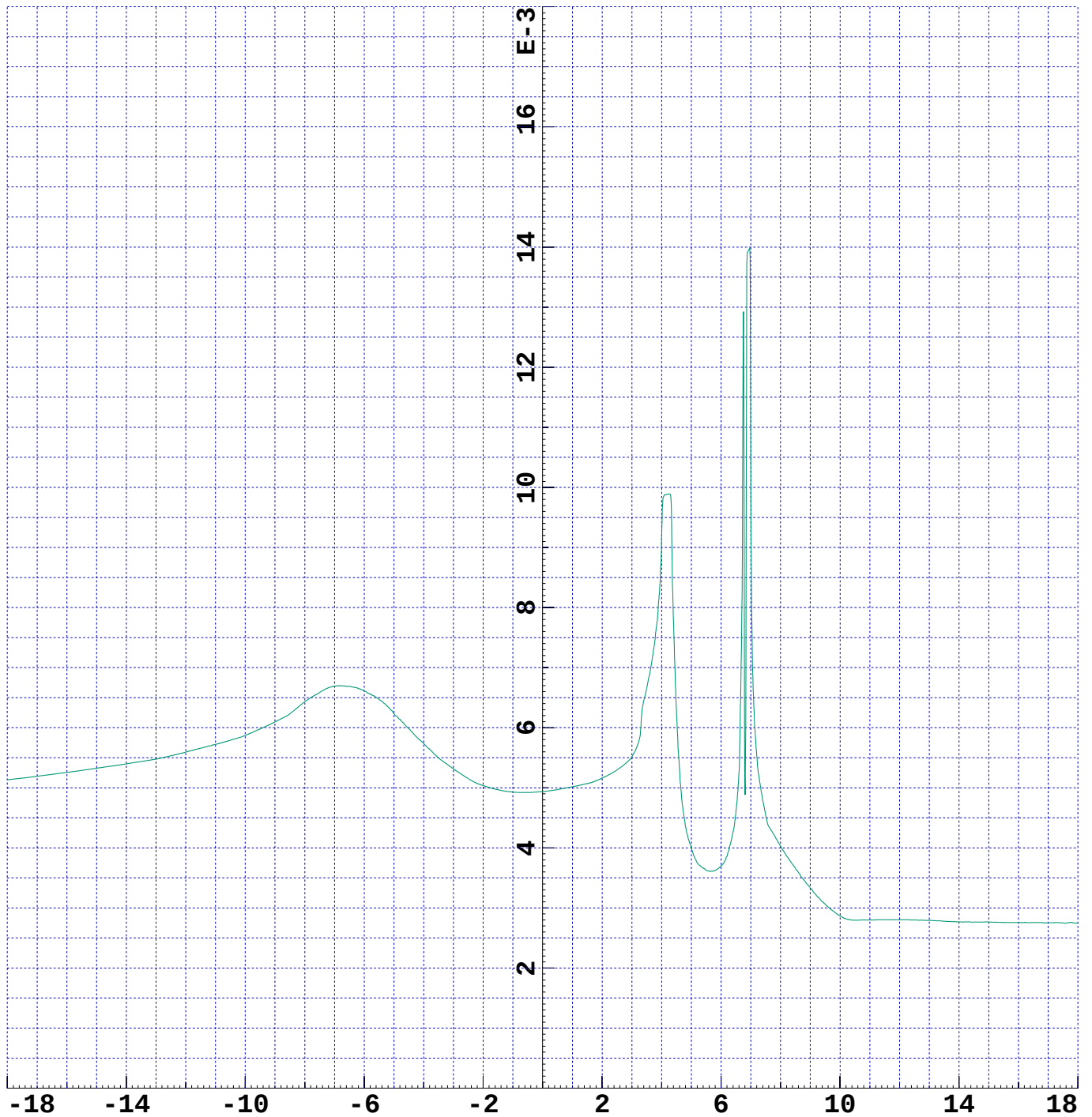




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZR1

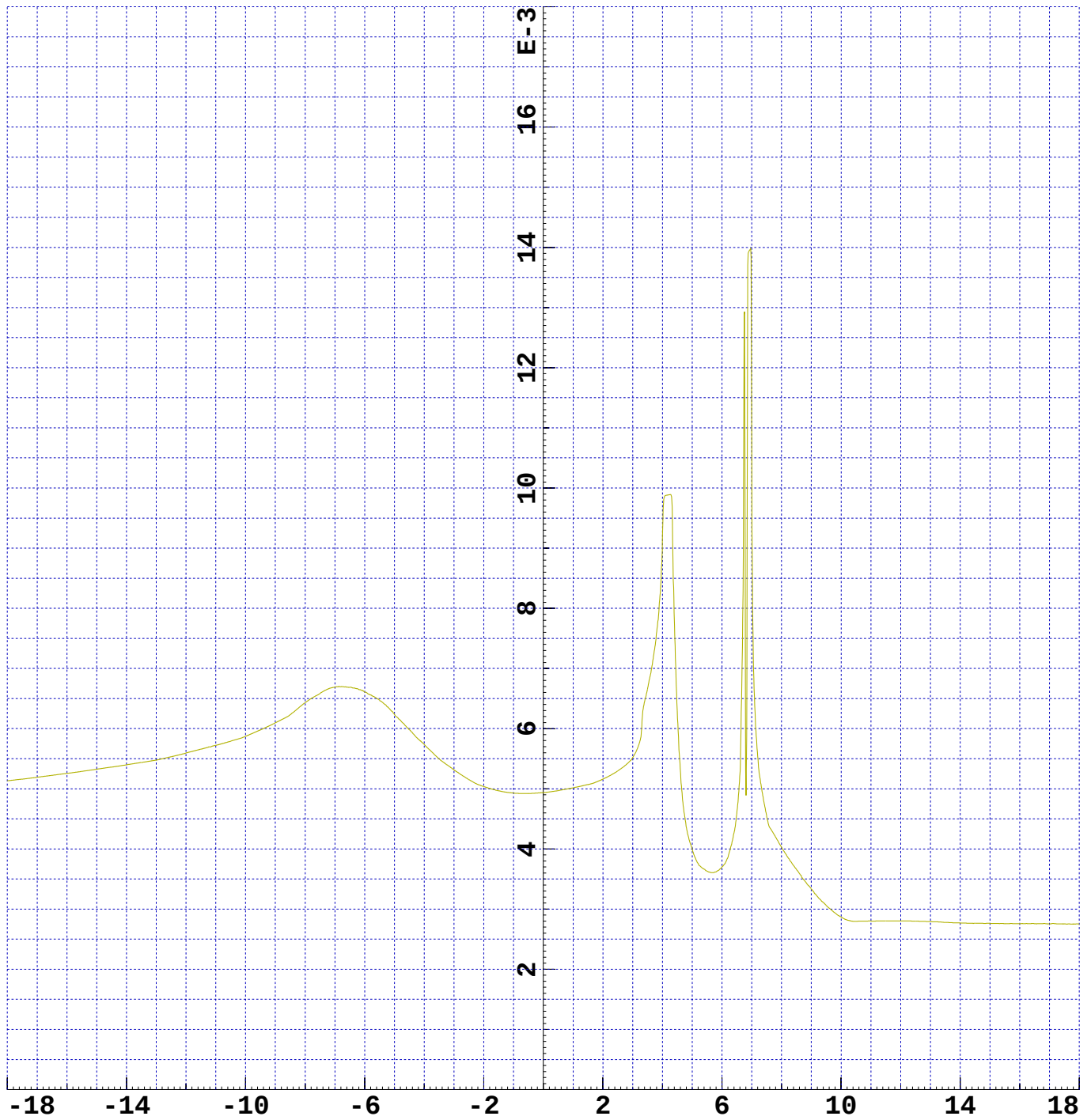
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

C_r

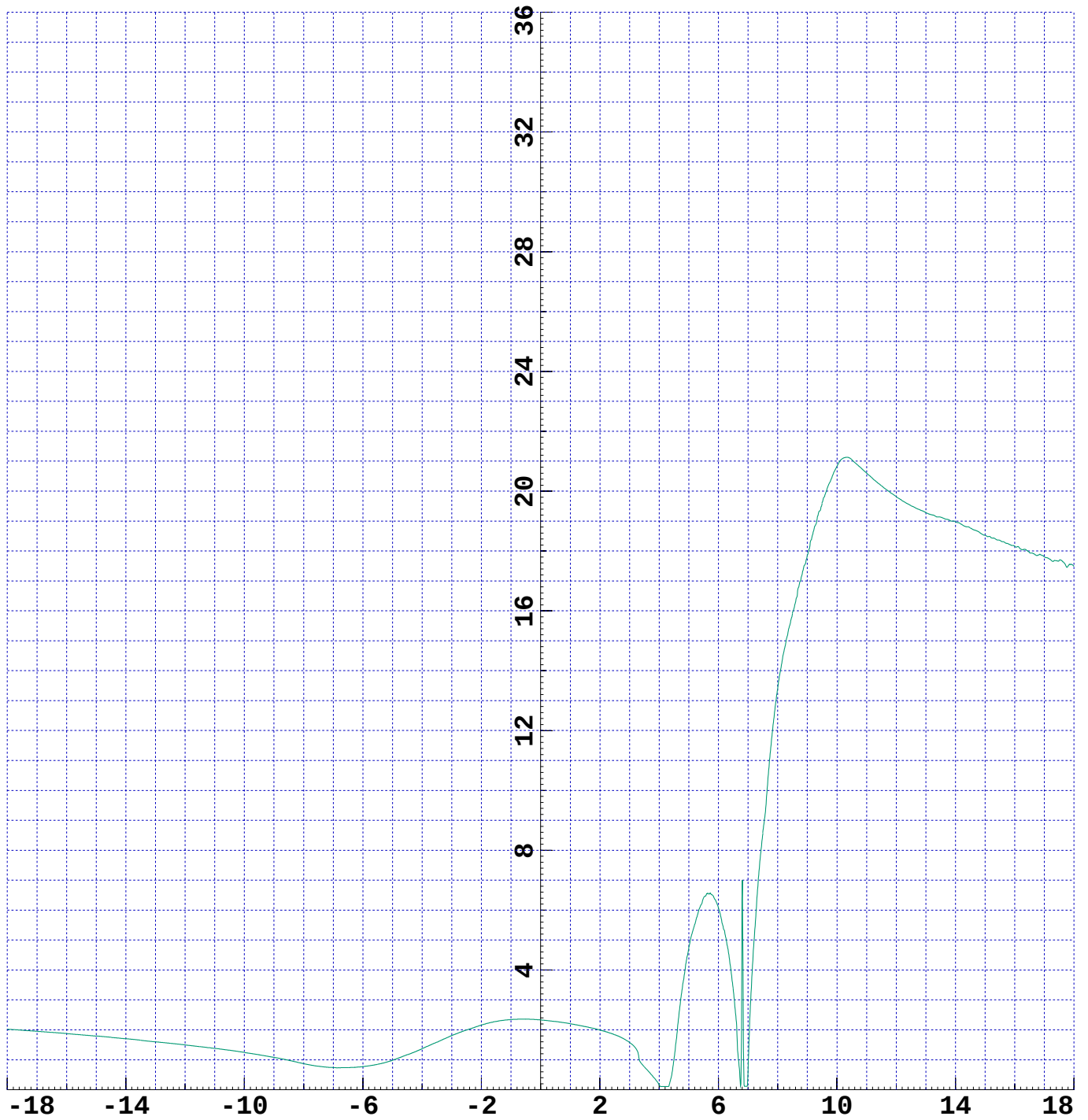
Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

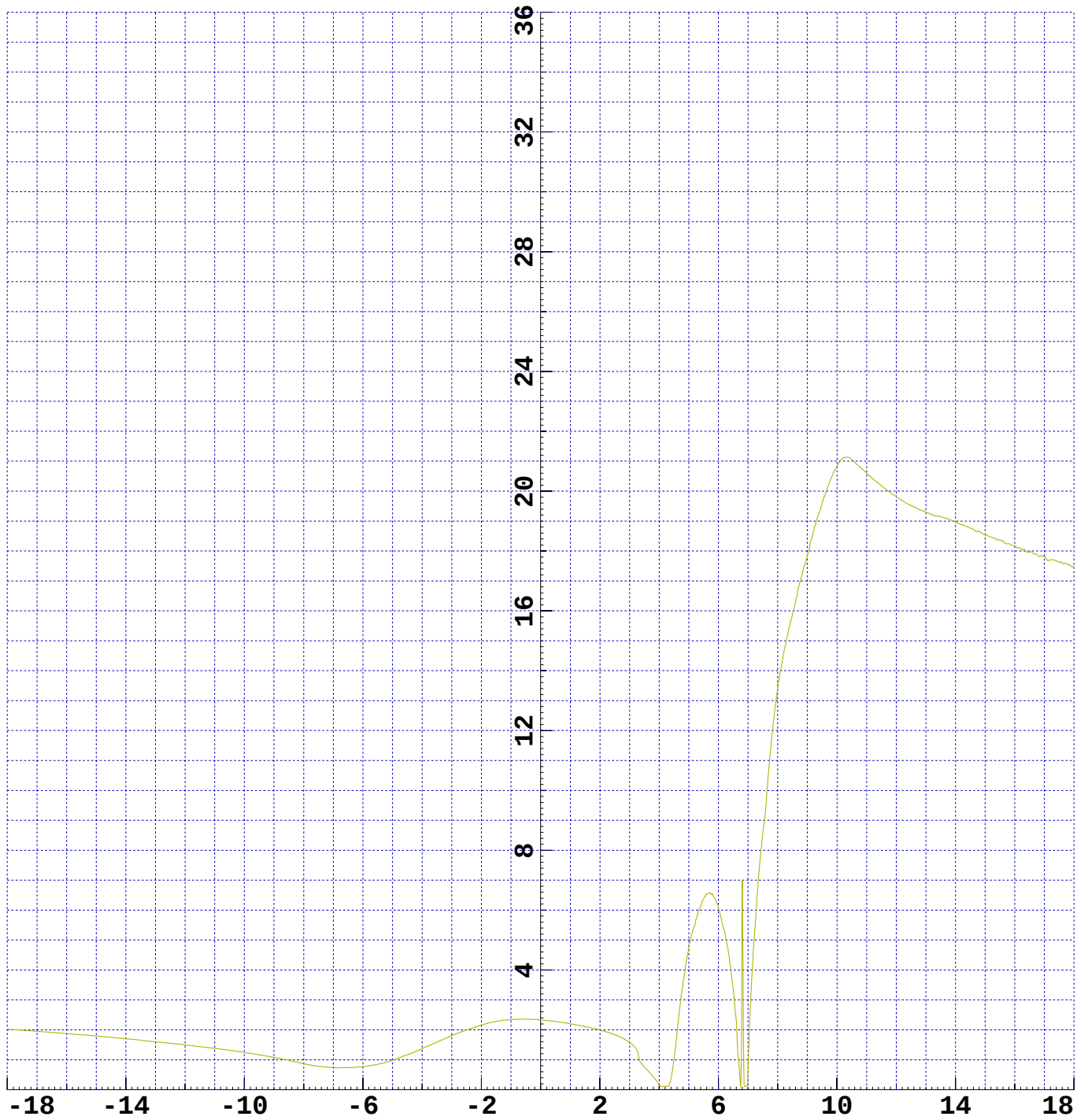
C_1

Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012

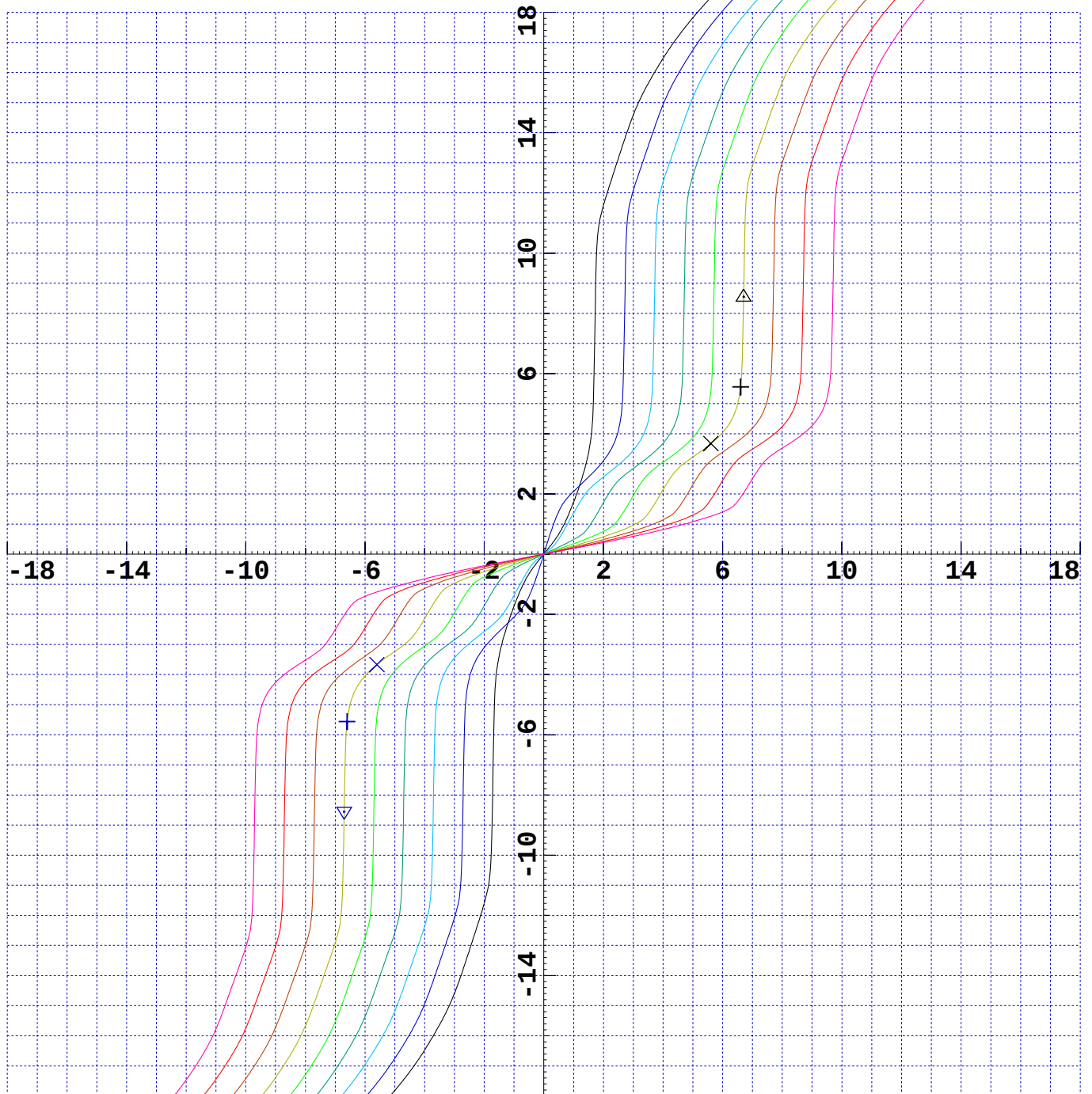
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

× = $\Delta r_E = 3.67$ left curve
 × = $\Delta r_E = 3.67$ right curve
 + = $A0r = 6.60$ 5.55
 + = $A0l = -6.60$ -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/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
 wprof_lat_shift=0 Gauge= 1425-1441

rr-rl

Ident: kpfr_012

GENSYS-KPF.1308

Delta_Y=

.1

.5

2

3

4

6

Gauge= 1425

—

.602

.634

1.271

1.315

1.284

1.202

1427

—

1.156

1.115

.804

1.094

1.194

1.160

1429

—

.388

.460

.653

.588

.913

1.086

1431

—

.227

.229

.356

.450

.451

.938

1433

—

.169

.170

.184

.257

.340

.577

1435

—

.136

.137

.143

.153

.205

.302

1437

—

.116

.116

.119

.124

.134

.230

1439

—

.102

.102

.104

.108

.113

.153

1441

—

.093

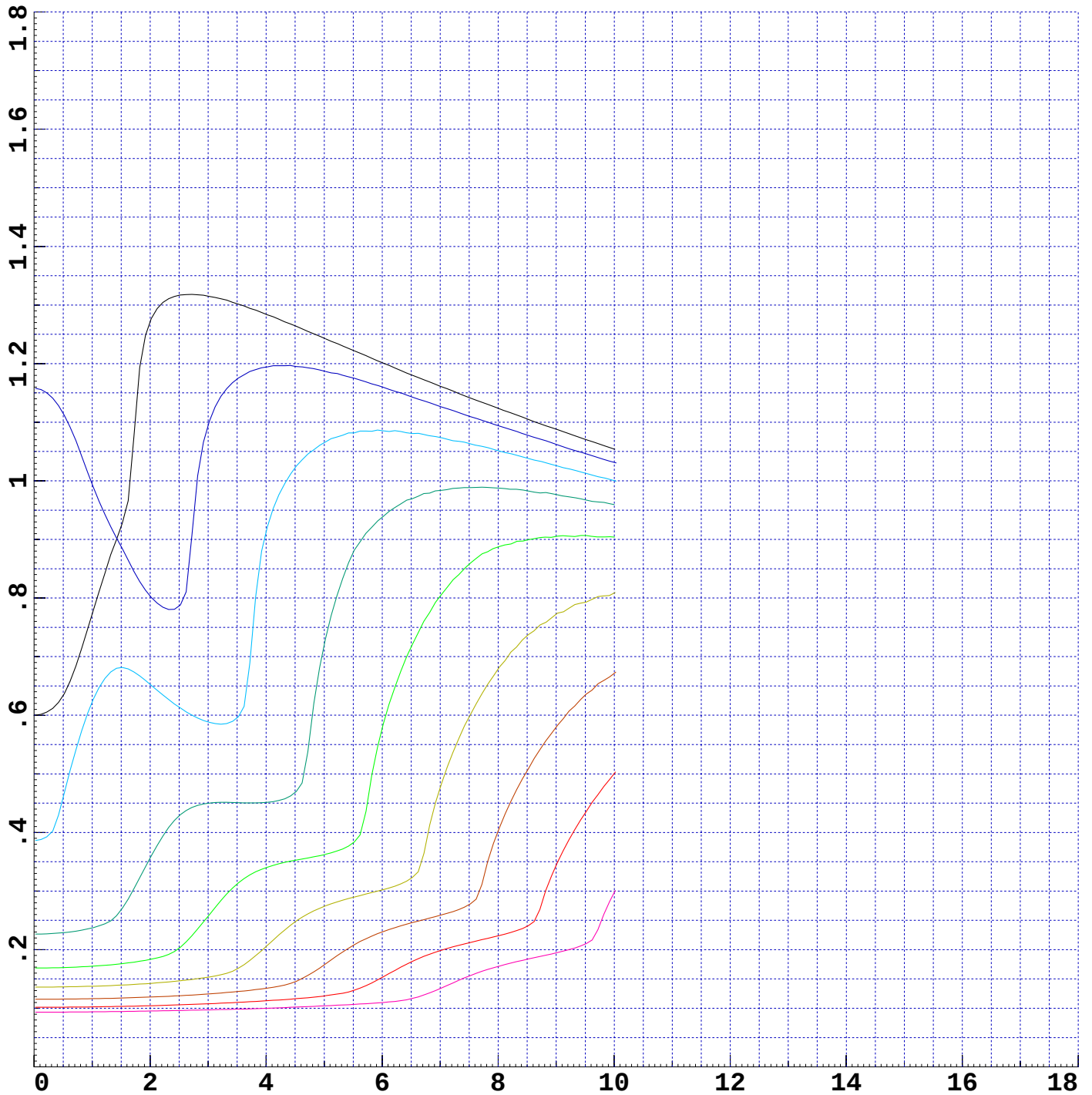
.093

.095

.097

.100

.110



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

Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail

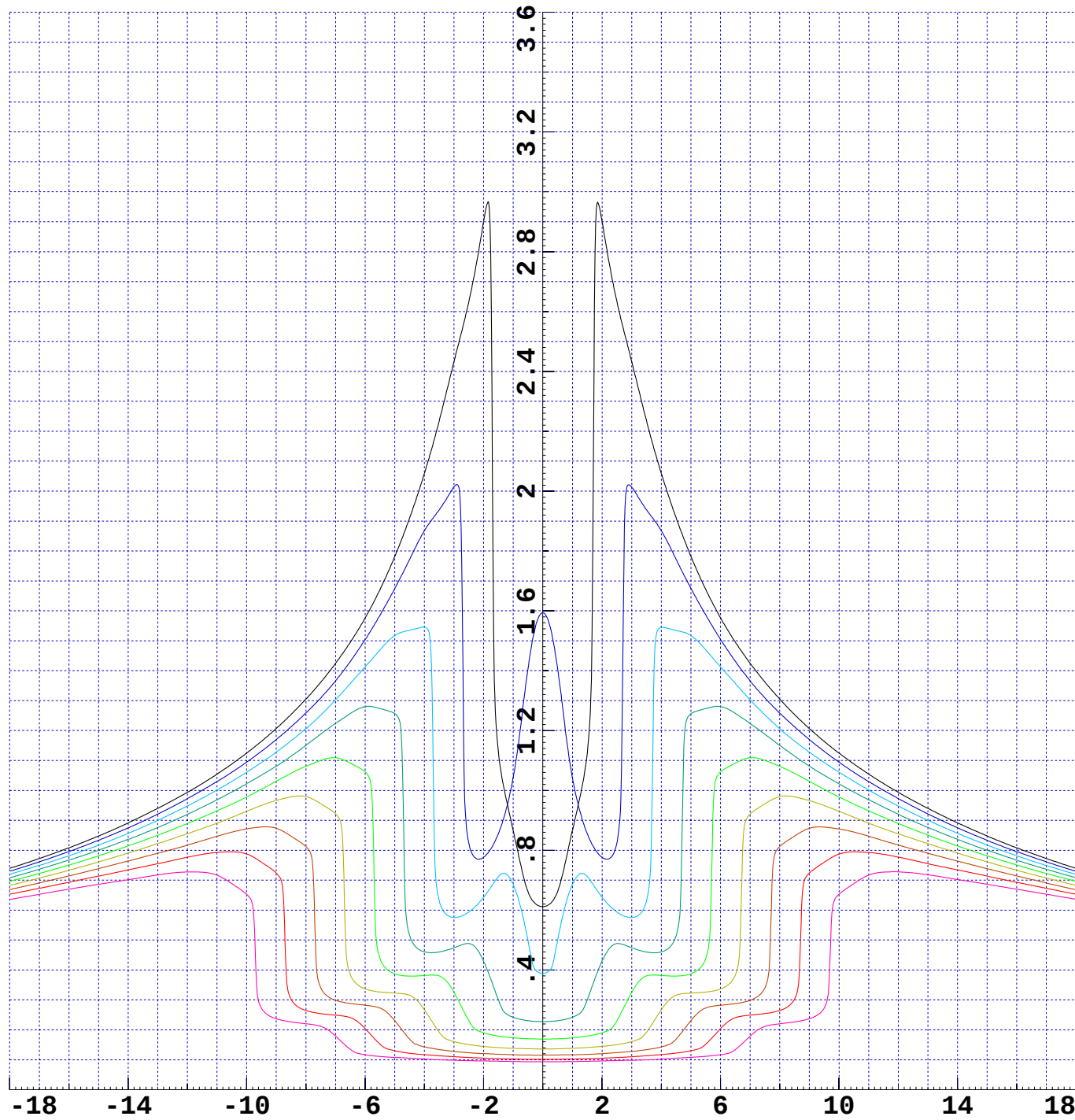
wprof_lat_shift= 0 Gauge= 1425-1441

UIC519

Ident: kpfr_012

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	.613	.661	2.900	2.432	2.059	1.576
1427	—	1.586	1.407	.776	2.014	1.867	1.504
1429	—	.390	.499	.643	.575	1.545	1.413
1431	—	.227	.230	.430	.474	.461	1.280
1433	—	.169	.170	.190	.325	.382	1.062
1435	—	.136	.137	.145	.161	.267	.337
1437	—	.116	.116	.121	.128	.143	.282
1439	—	.102	.102	.105	.110	.117	.204
1441	—	.093	.093	.096	.098	.102	.117

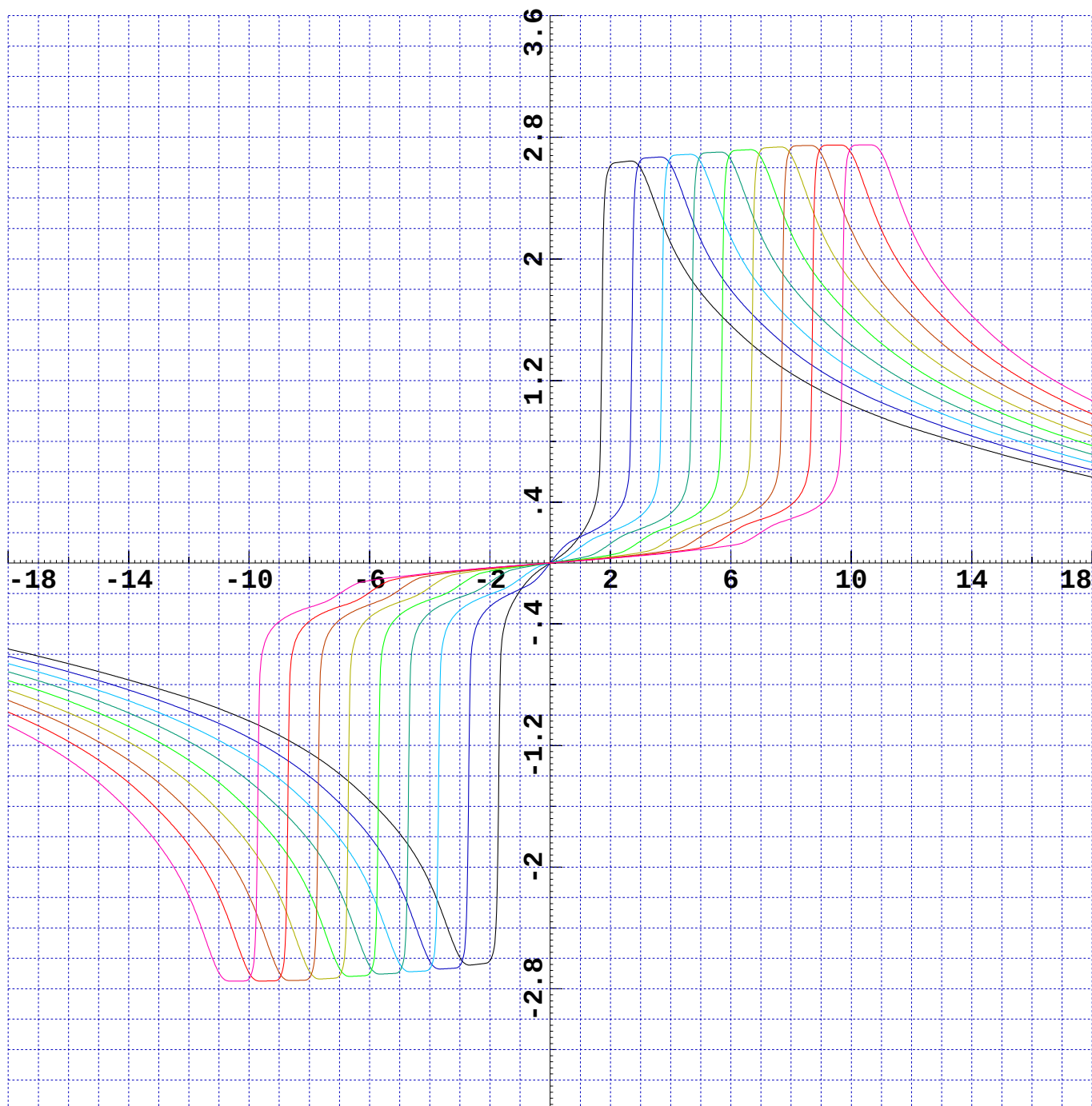


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **lambda**
Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012

GENSYS-KPF.1308

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

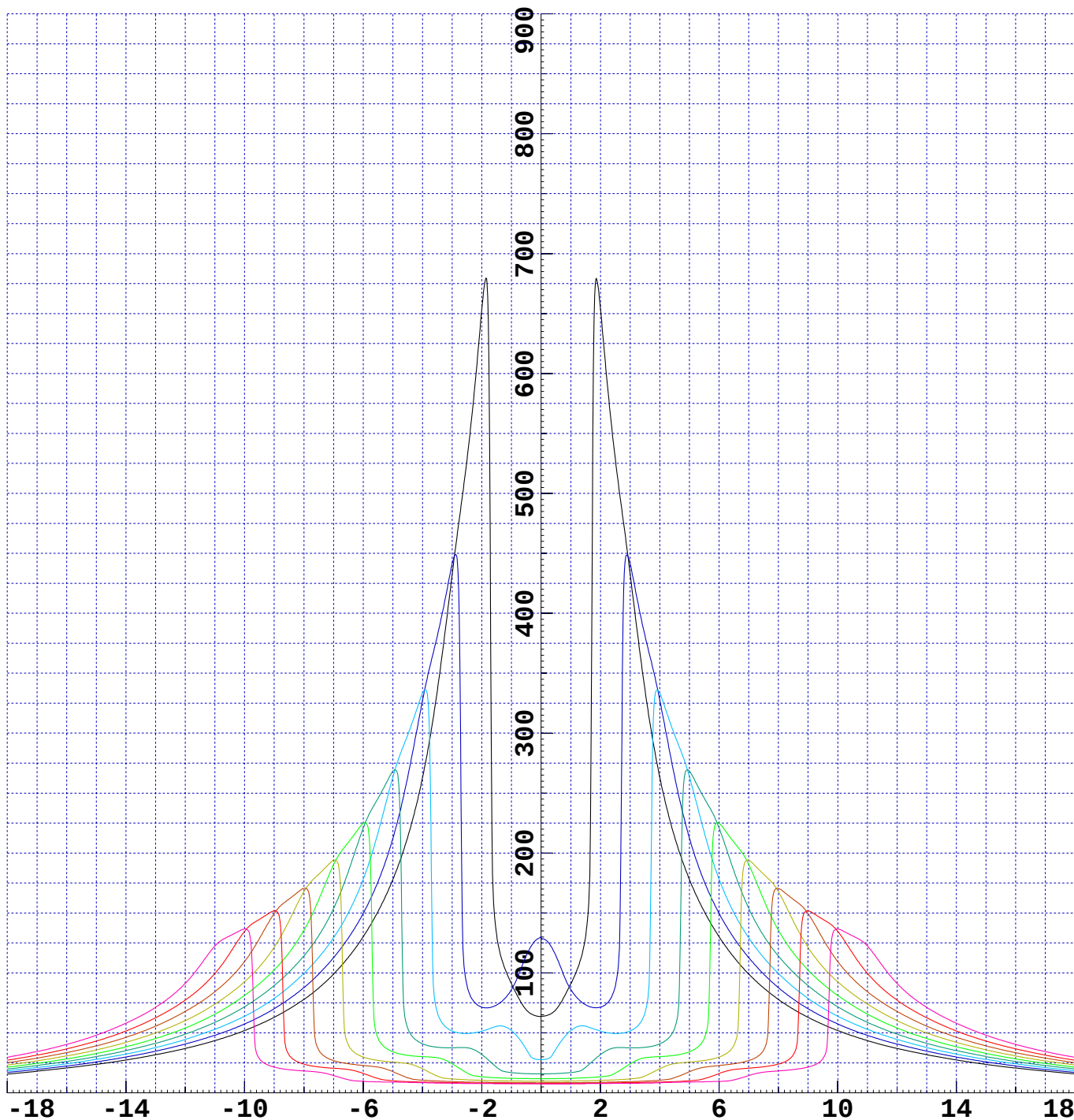


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel tan_Ga
 Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	63.89	69.28	653.50	432.53	263.01	130.21
1427	—	128.17	114.24	71.44	441.31	327.42	149.64
1429	—	27.79	36.28	51.49	51.66	333.44	178.28
1431	—	15.81	16.04	32.01	37.60	40.88	220.95
1433	—	11.81	11.88	13.37	24.18	30.15	224.86
1435	—	9.69	9.72	10.31	11.51	20.01	29.81
1437	—	8.44	8.46	8.81	9.38	10.54	22.75
1439	—	7.73	7.75	8.01	8.41	8.99	16.11
1441	—	7.43	7.44	7.71	7.95	8.37	9.57

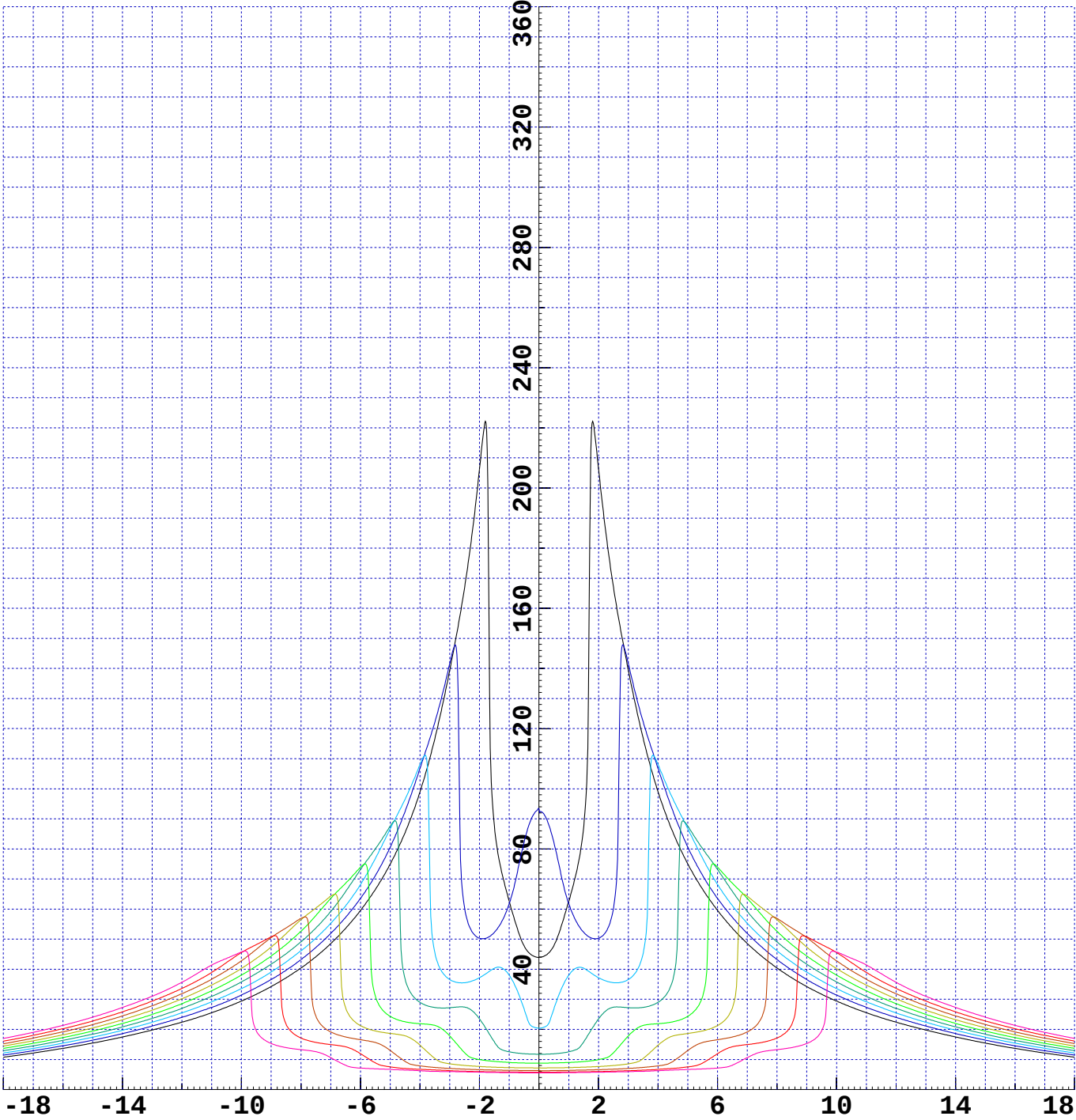


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel KAPPA
 Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_012

GENSYS-KPF.1308

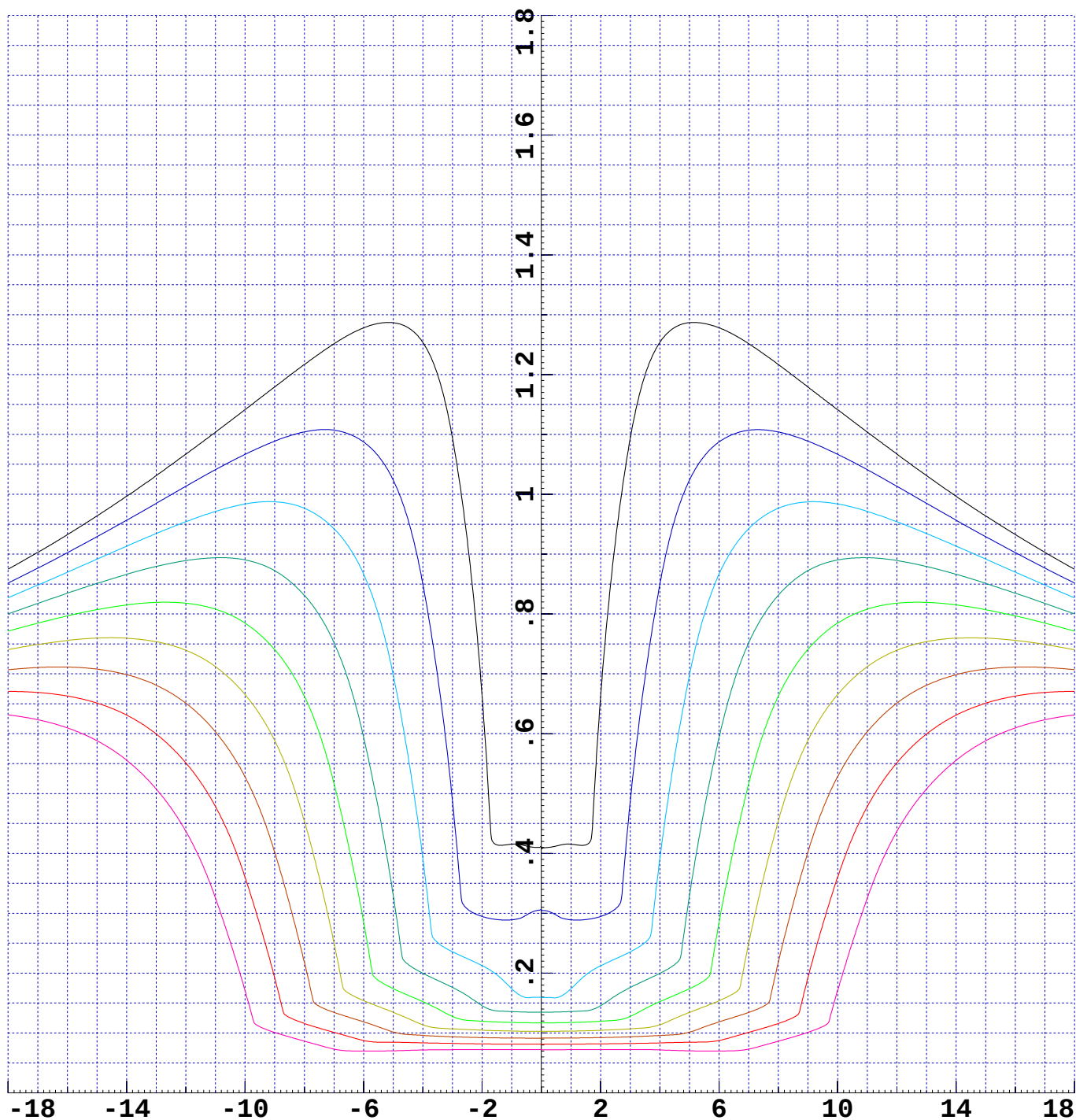
Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	44.12	47.79	206.22	139.40	98.97	59.57
1427	—	92.26	82.22	50.33	141.66	106.80	63.56
1429	—	20.54	26.77	37.16	36.55	108.08	68.17
1431	—	11.74	11.91	23.52	27.22	29.01	73.20
1433	—	8.79	8.84	9.94	17.80	21.87	73.97
1435	—	7.22	7.24	7.68	8.57	14.75	21.25
1437	—	6.30	6.32	6.58	6.99	7.85	16.56
1439	—	5.78	5.79	5.99	6.28	6.71	11.91
1441	—	5.56	5.57	5.76	5.95	6.26	7.14



GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	.41	.41	.66	1.09	1.25	1.28
	1427	.30	.30	.29	.49	.85	1.09
	1429	.16	.16	.21	.24	.39	.87
	1431	.13	.13	.15	.18	.20	.59
	1433	.12	.12	.12	.13	.15	.29
	1435	.10	.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

Left rail: r_prof/SEC012_l.short.rail Right rail: r_prof/SEC012_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

RollAC

Ident: kpfr_012