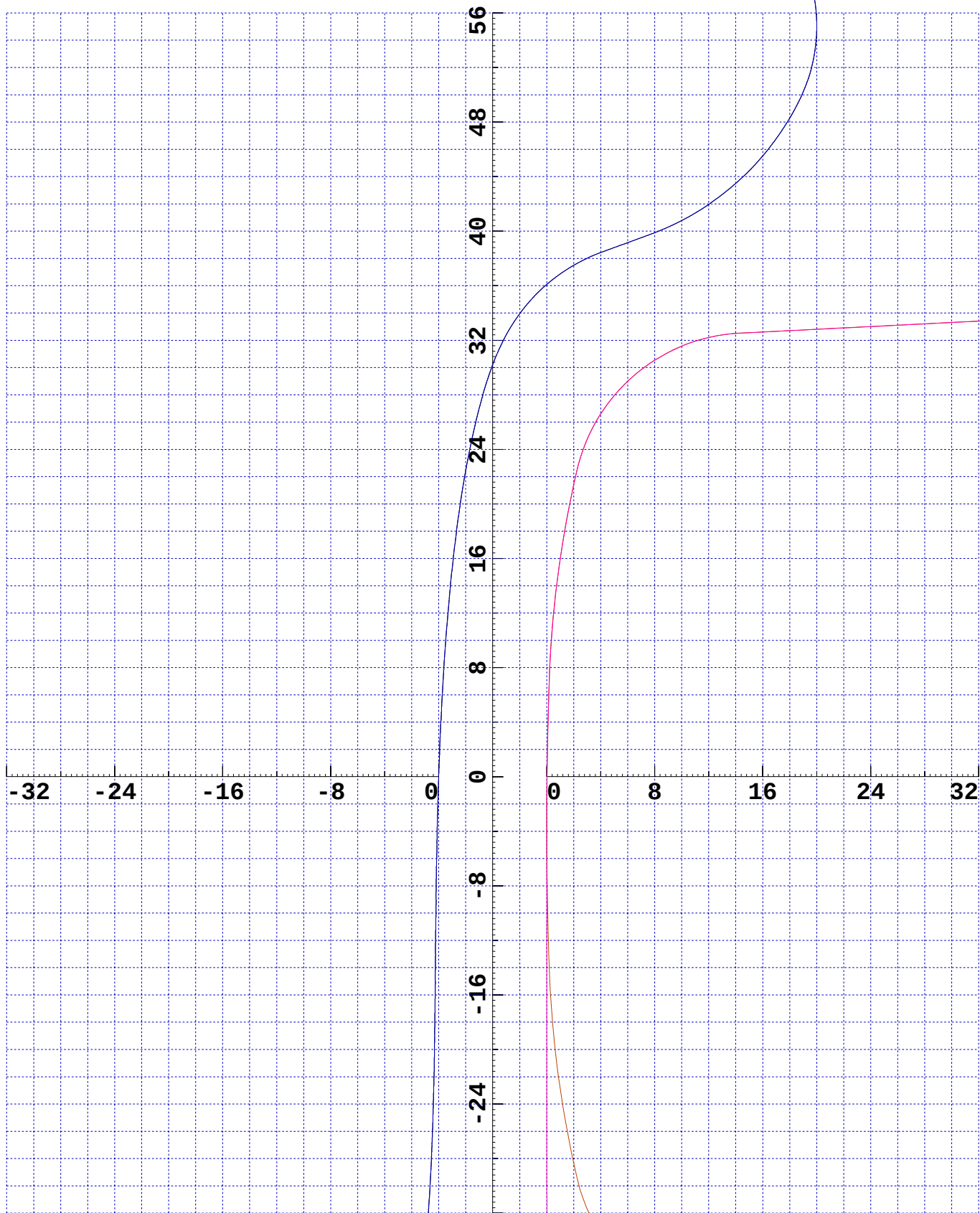
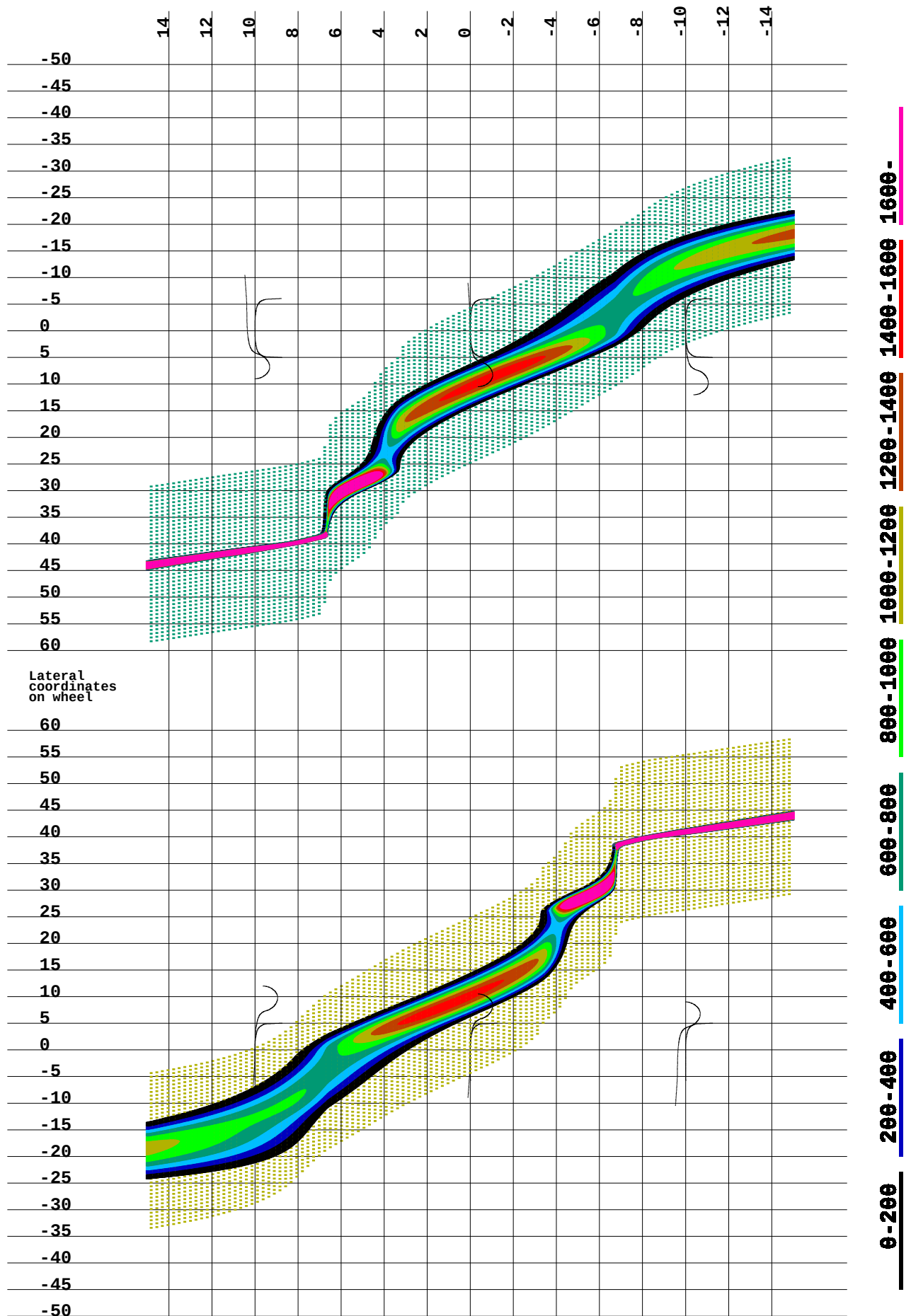


- Right wheel
- Left wheel
- Right rail
- Left rail



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015

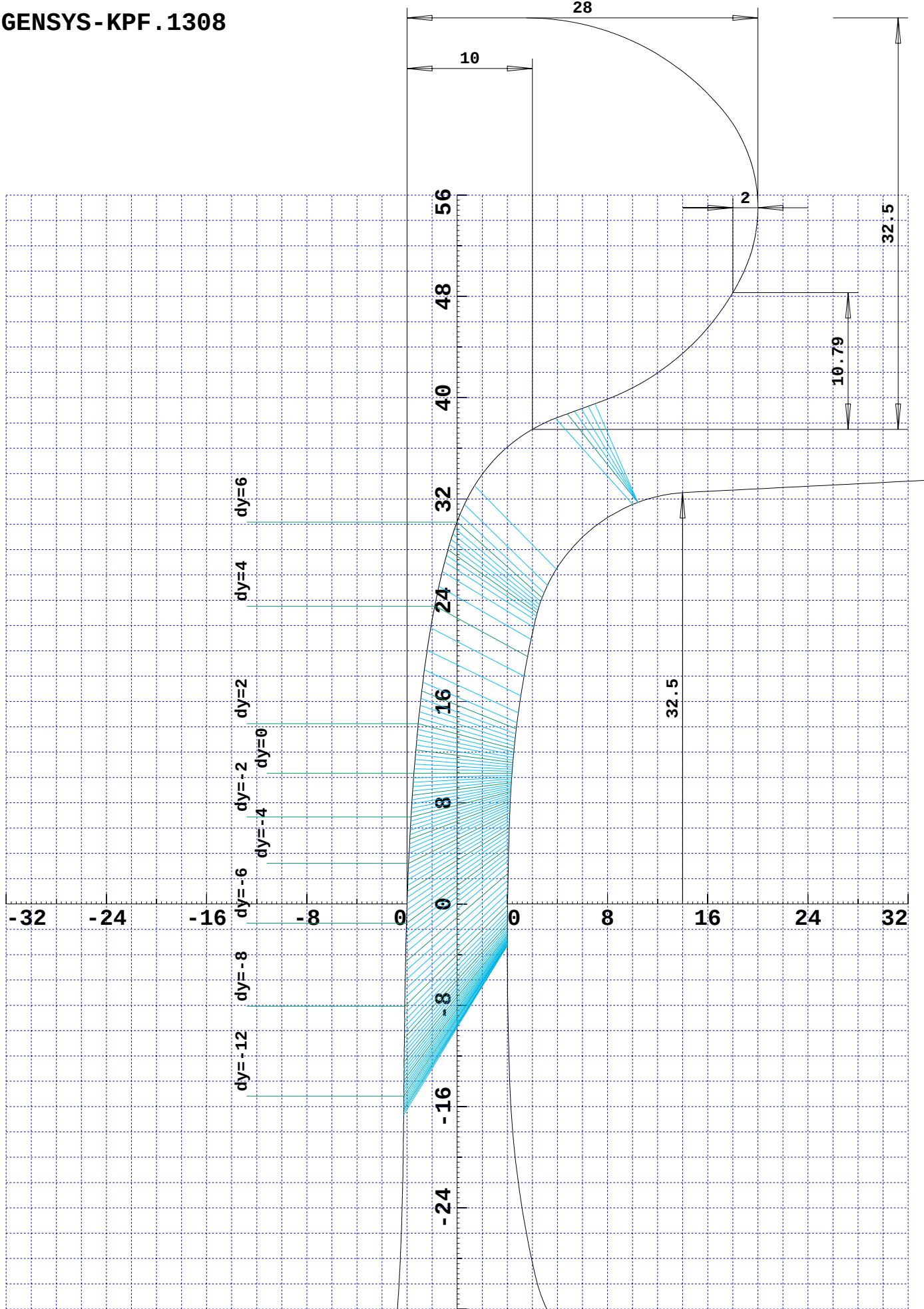


Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel

Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.sho

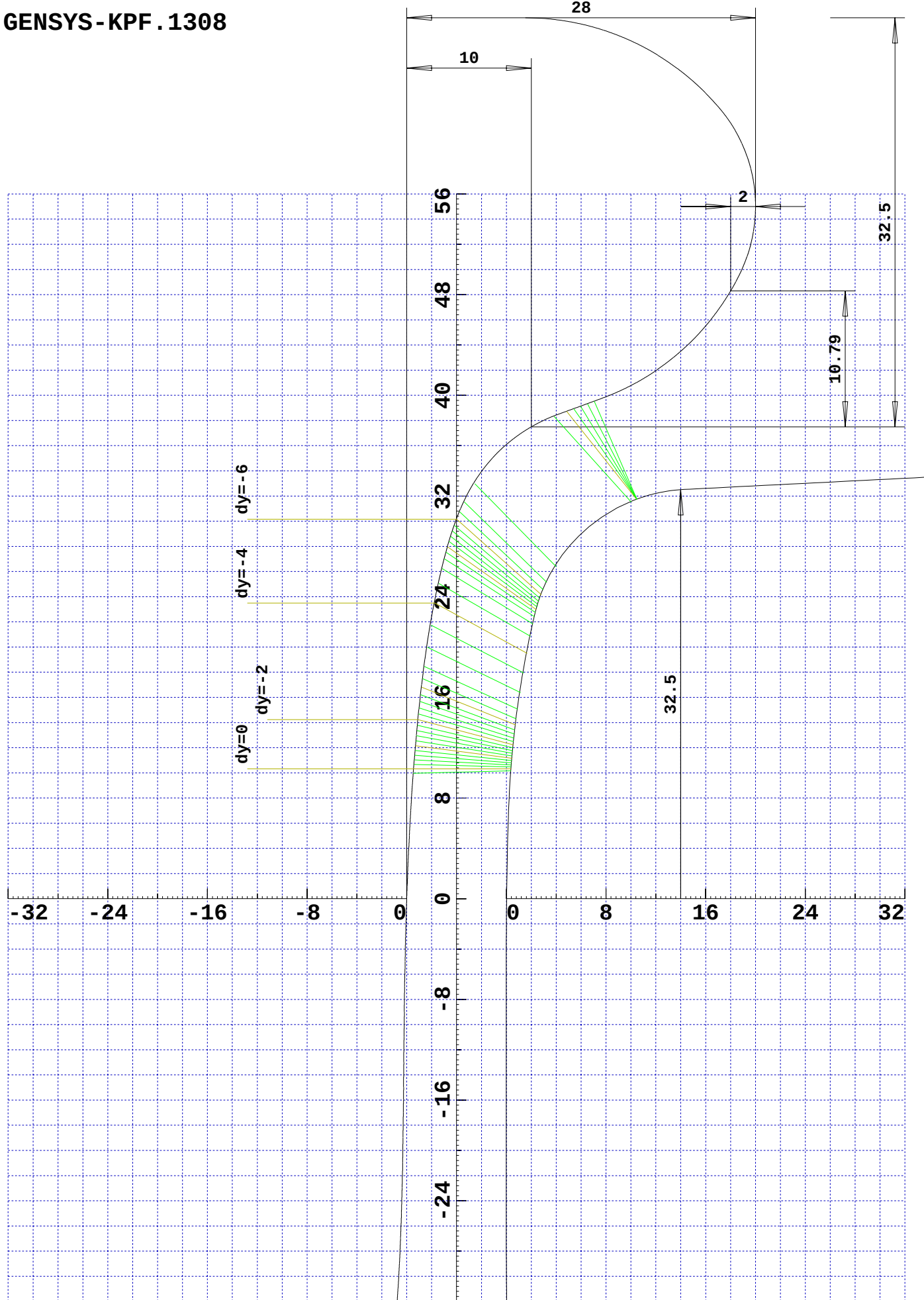
Wprof_lat_shift= 0 Gauge= 1425-1441

Contact Pressure



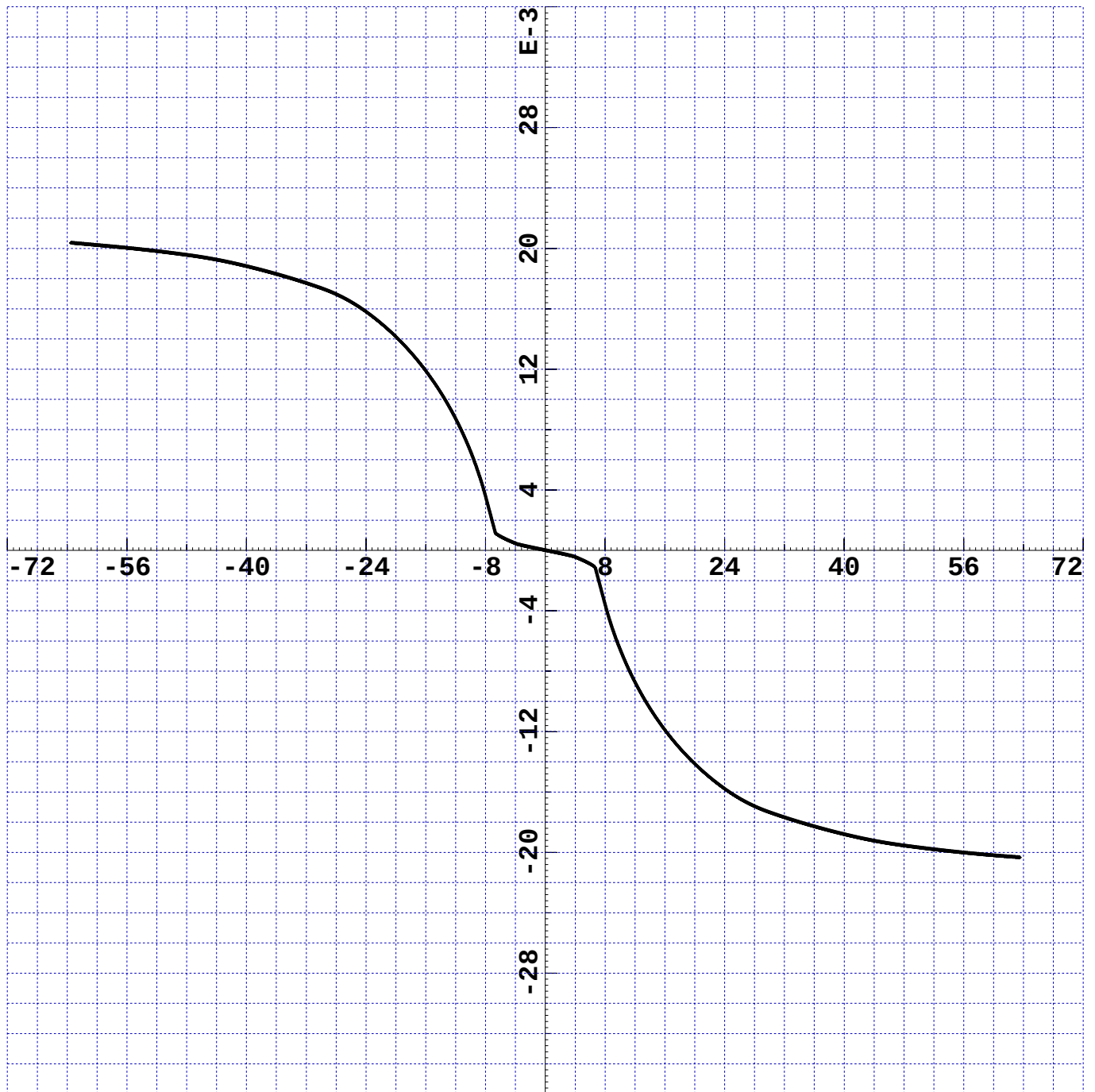
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel CONNr
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015



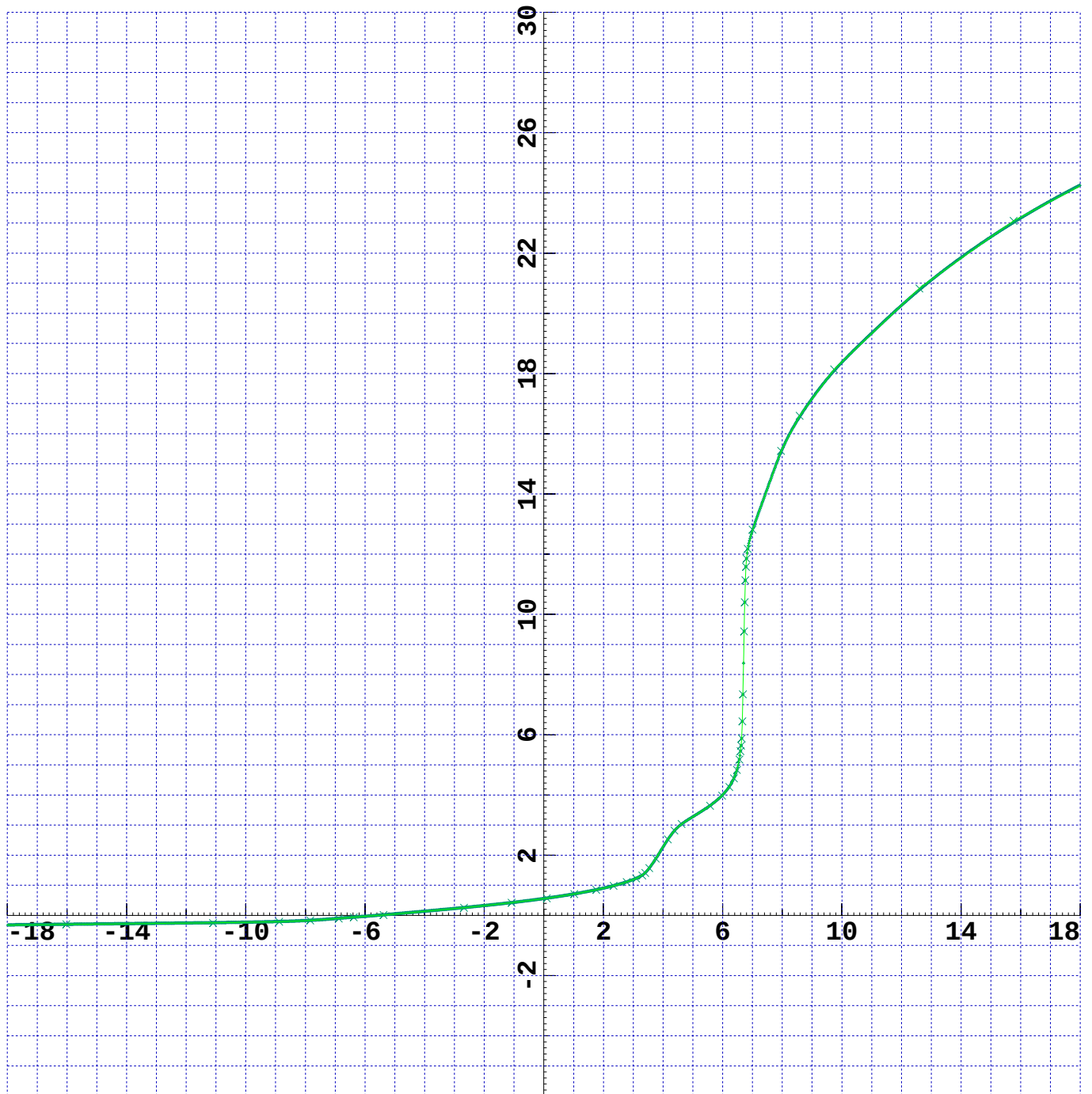
CONN1

Ident: kpfr_015



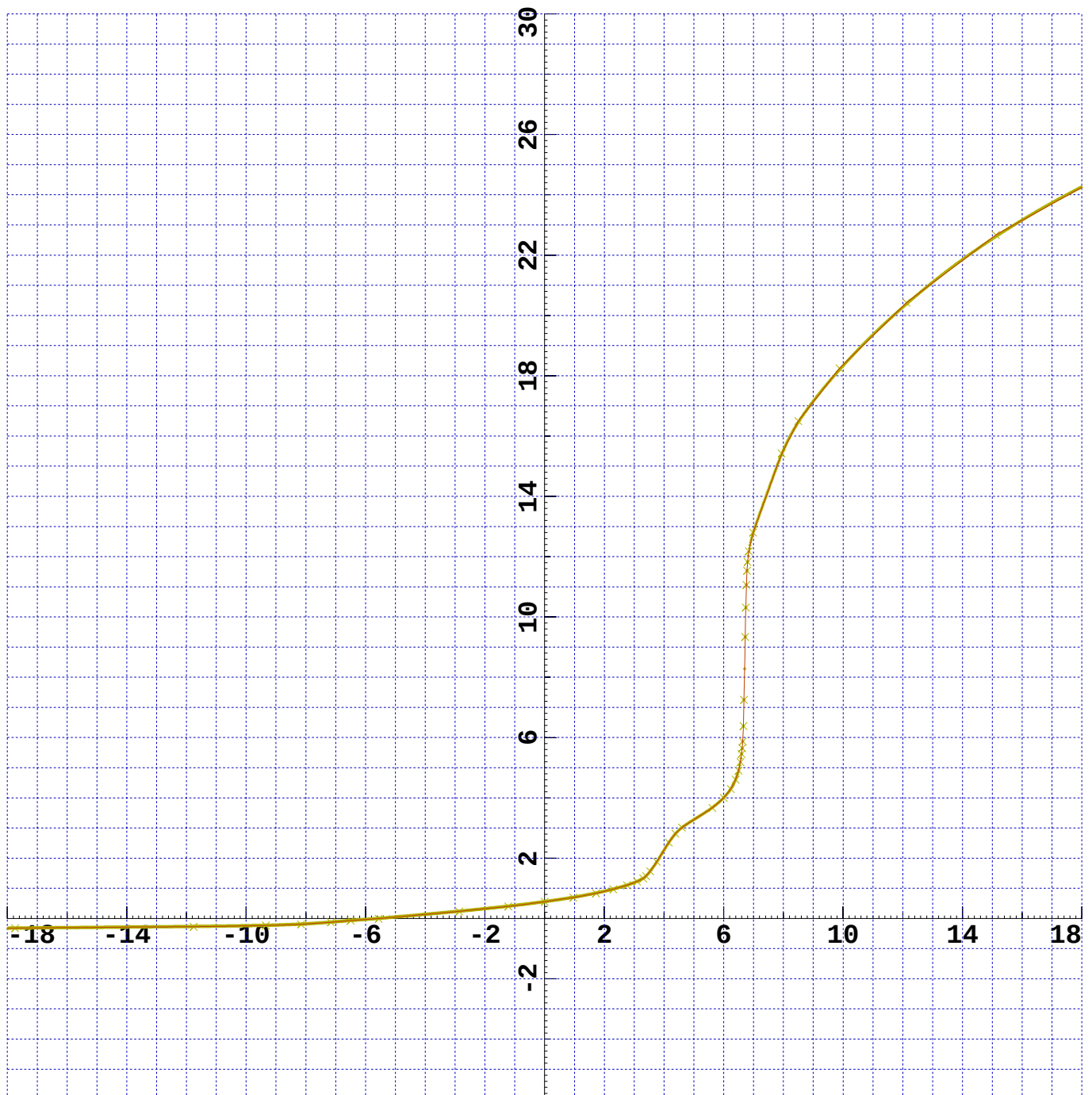
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flaxl**
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel DRFNr
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

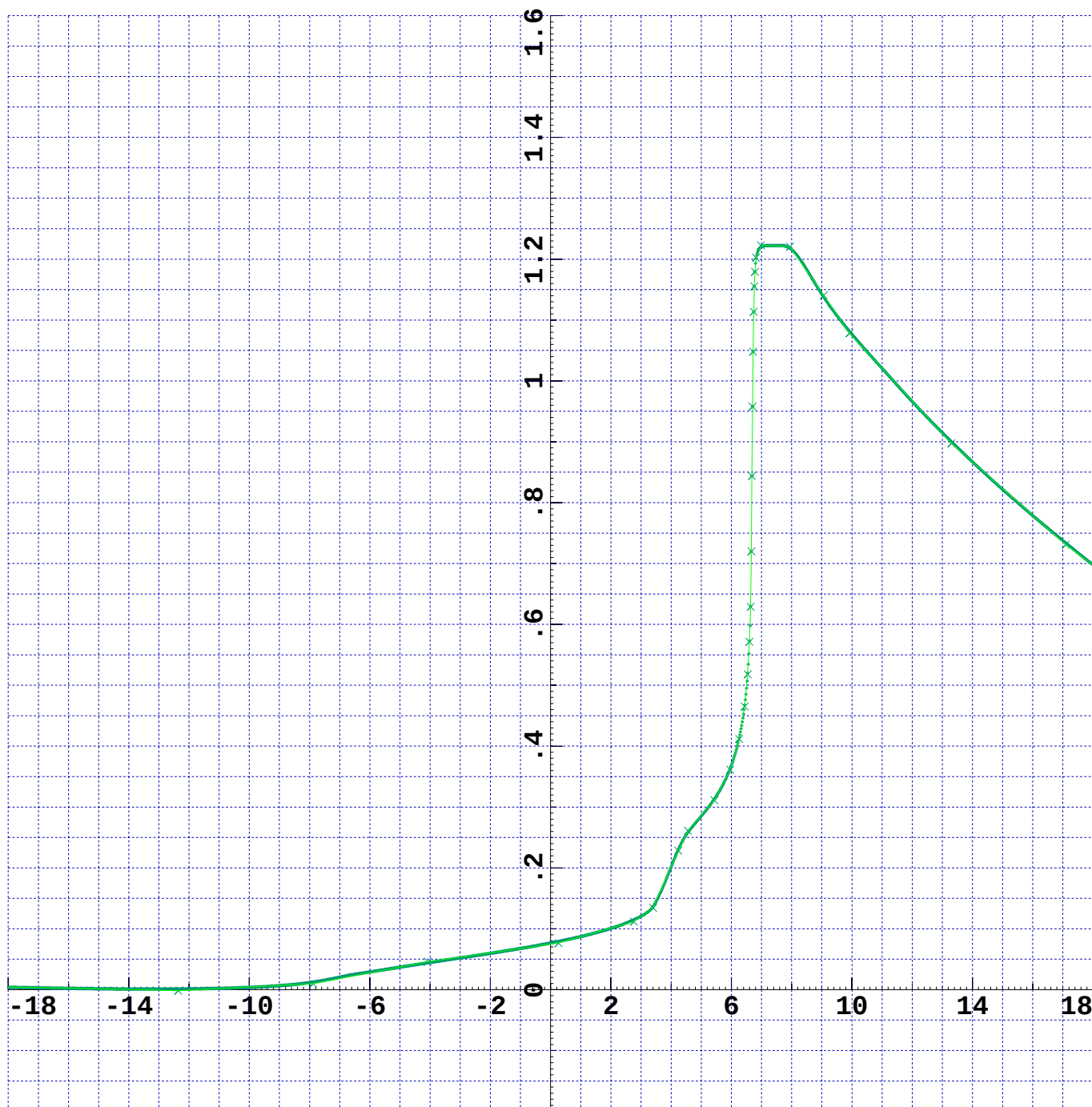
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

DRFN1

Ident: kpfr_015



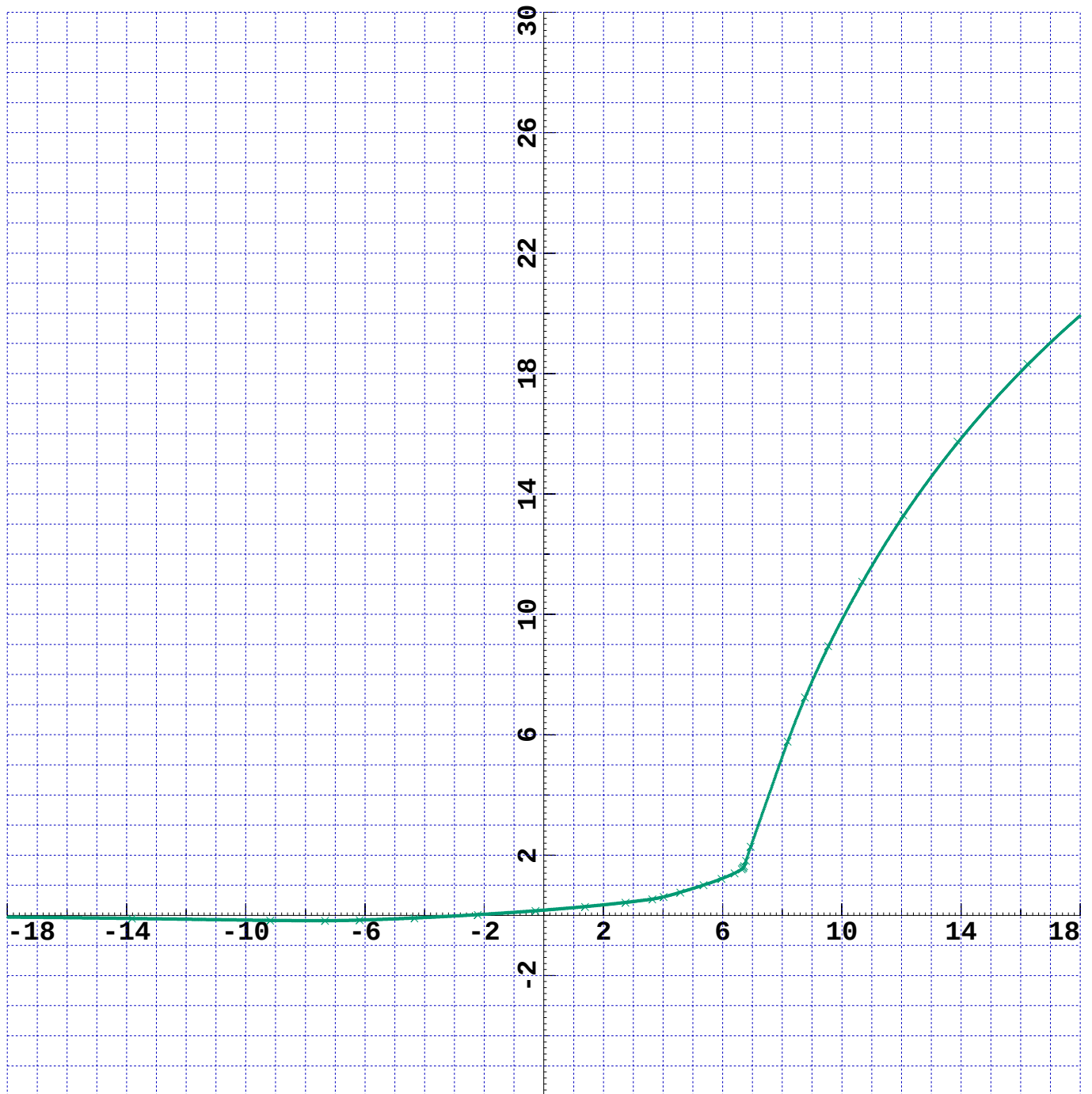
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFNr
 Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel GAMFN1
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

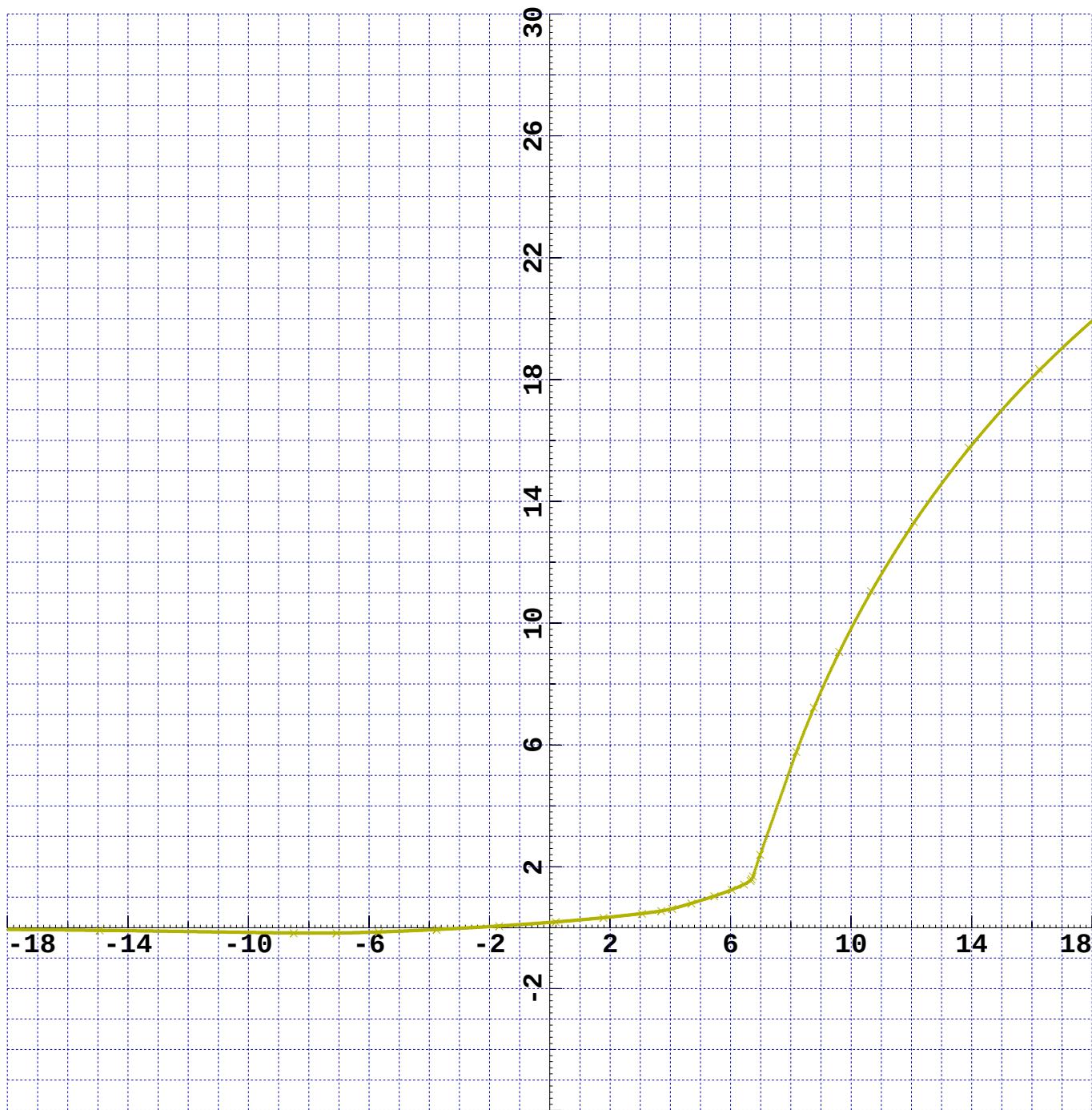
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFNr

Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ZFN1
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

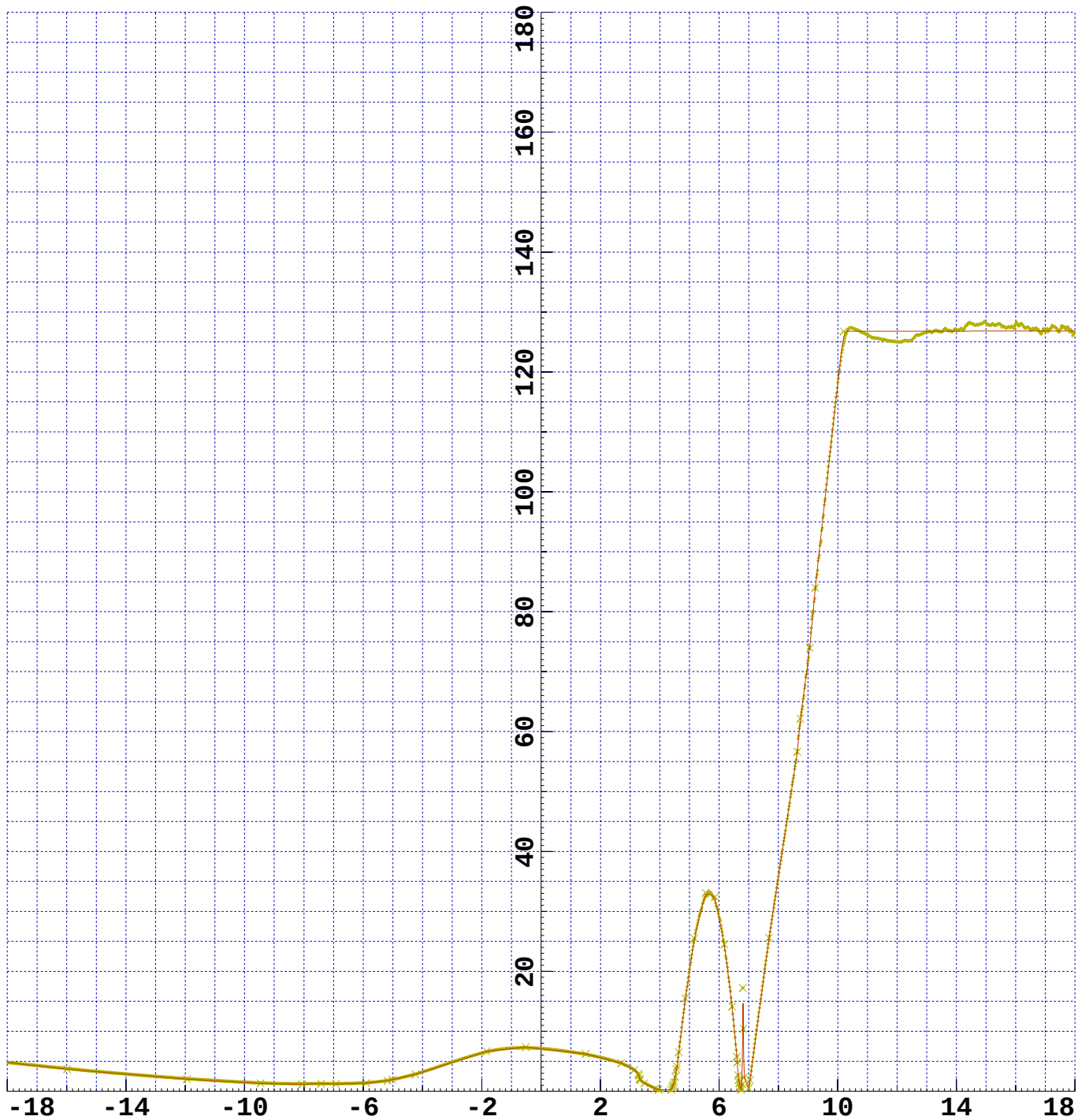
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

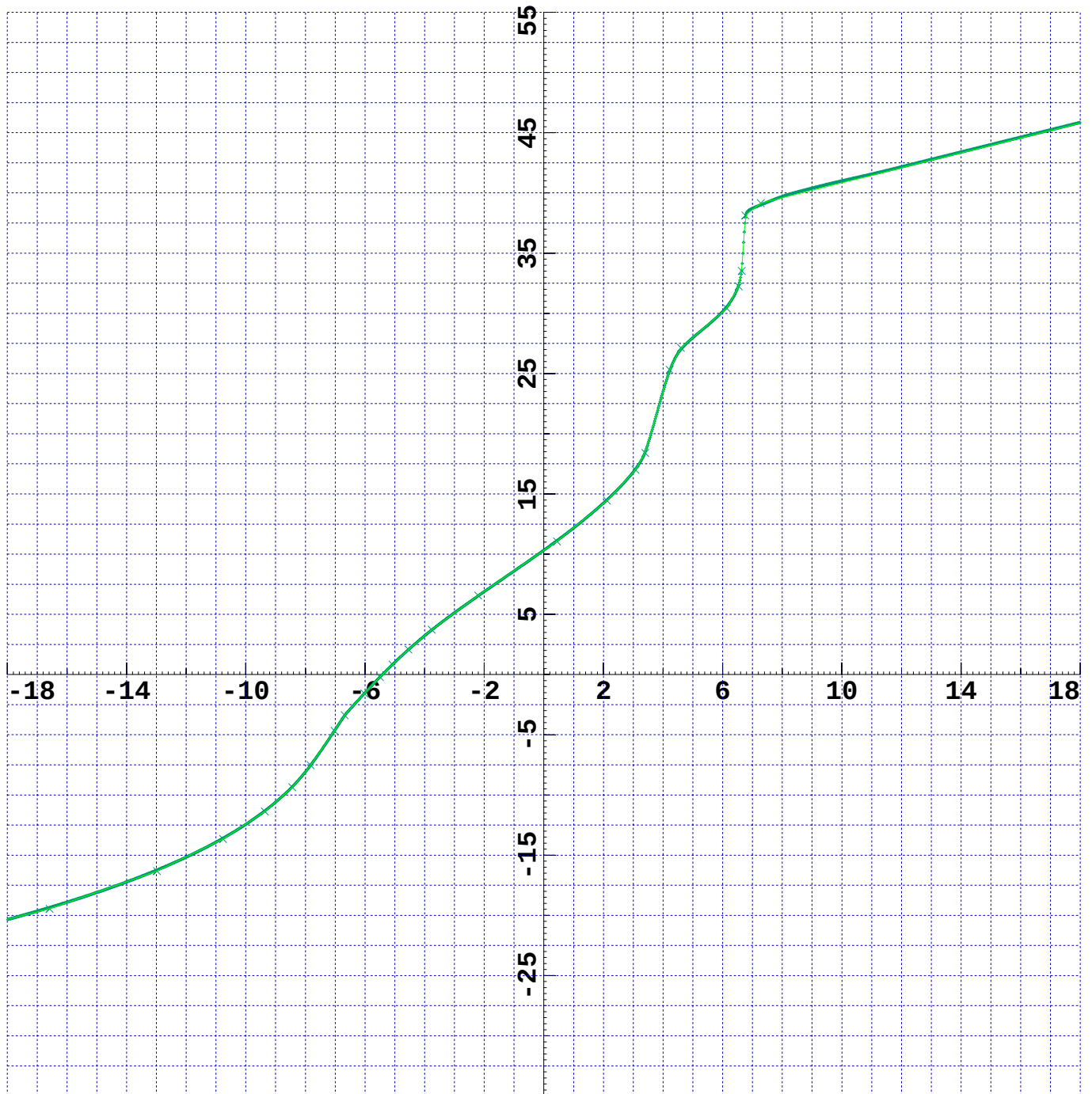
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFN1

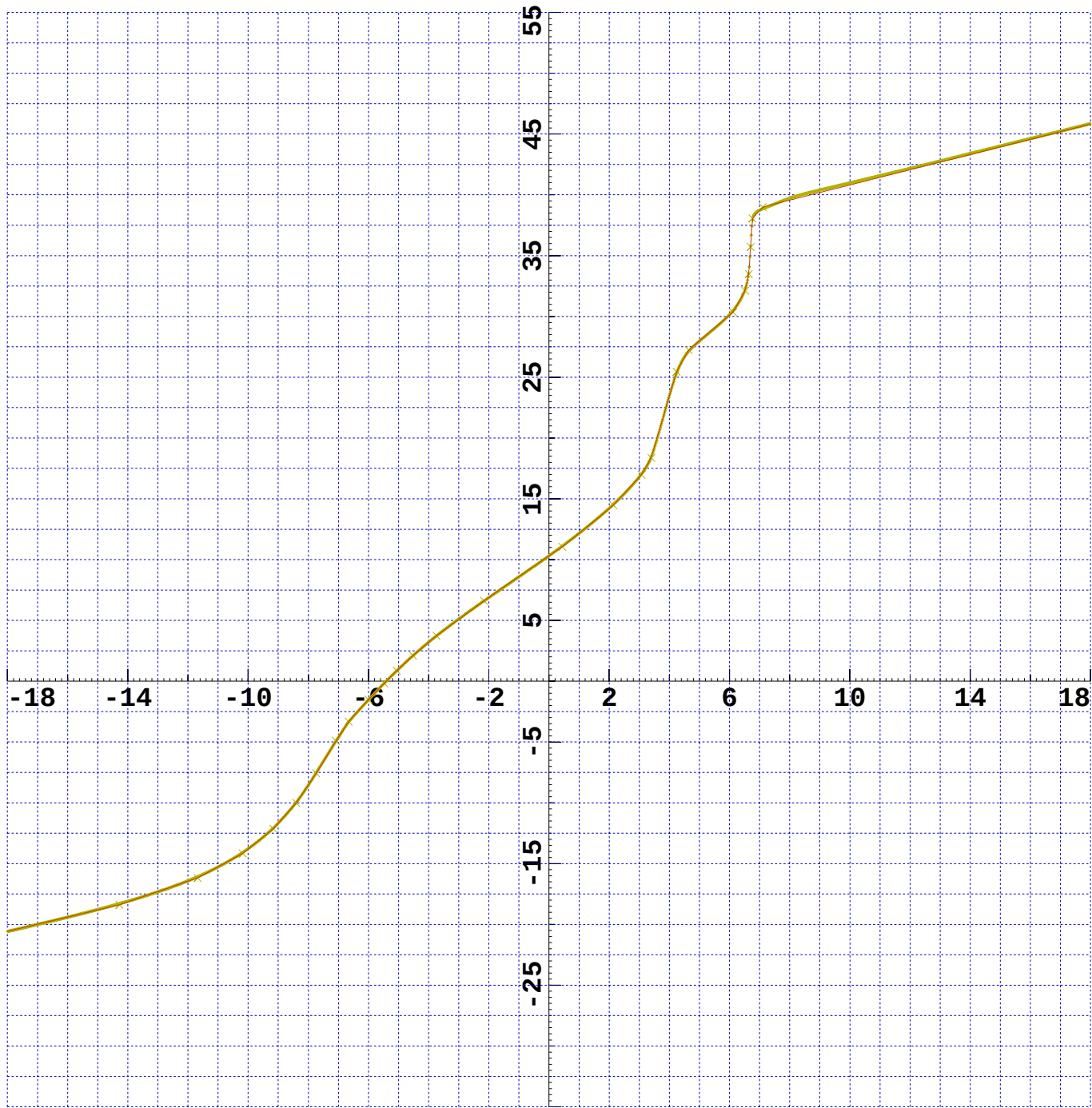
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSWr

Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSW1
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

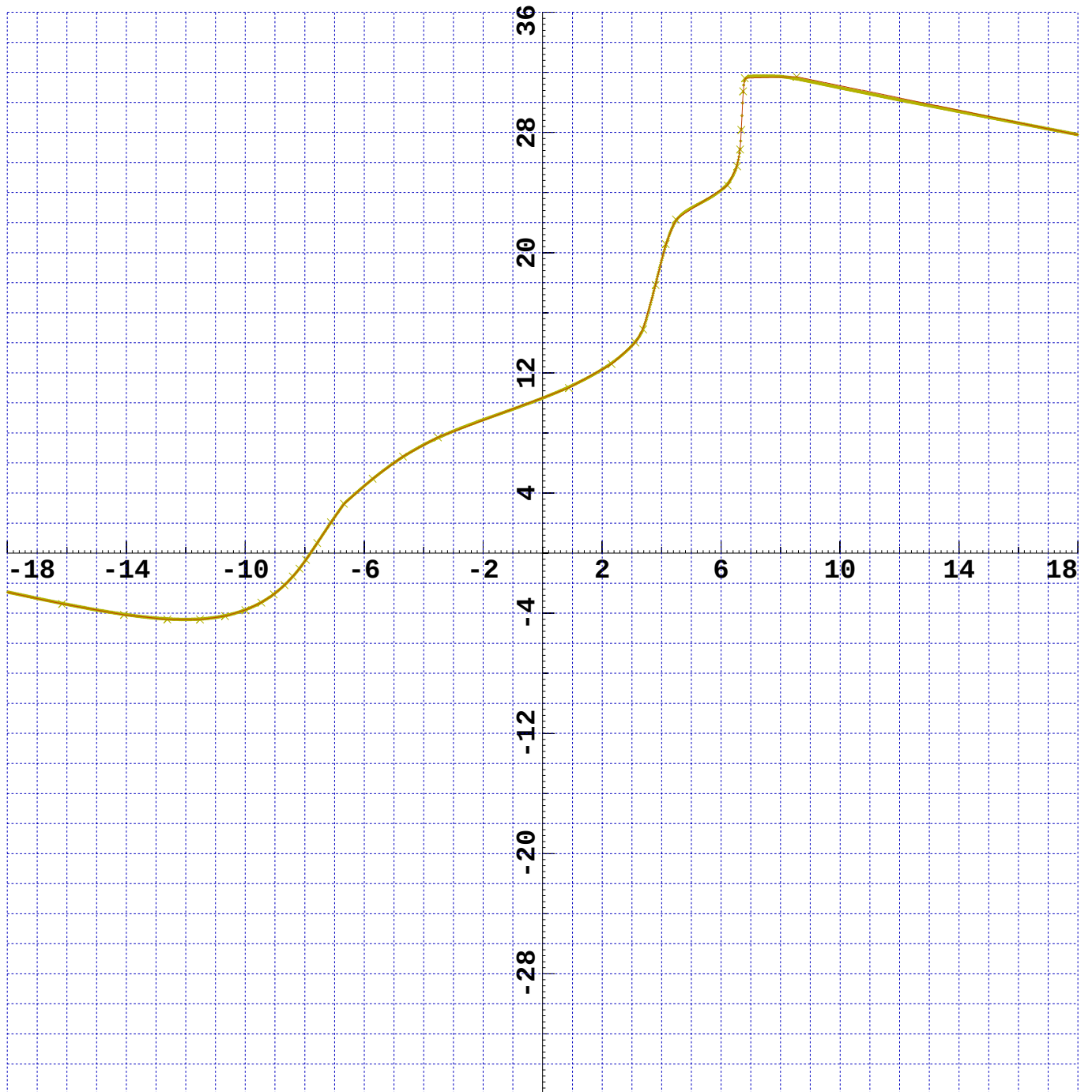
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSRR

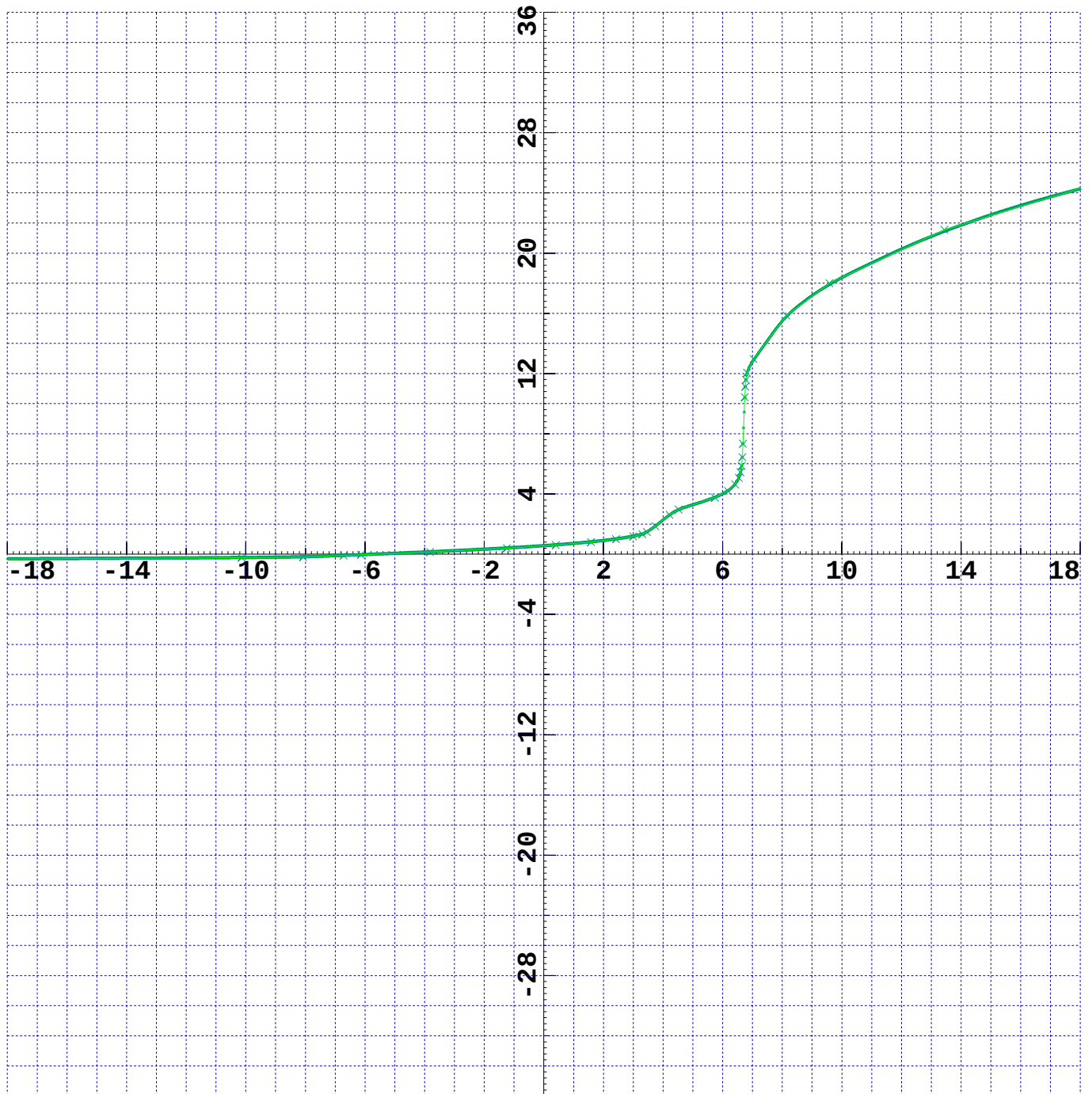
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

POSR1

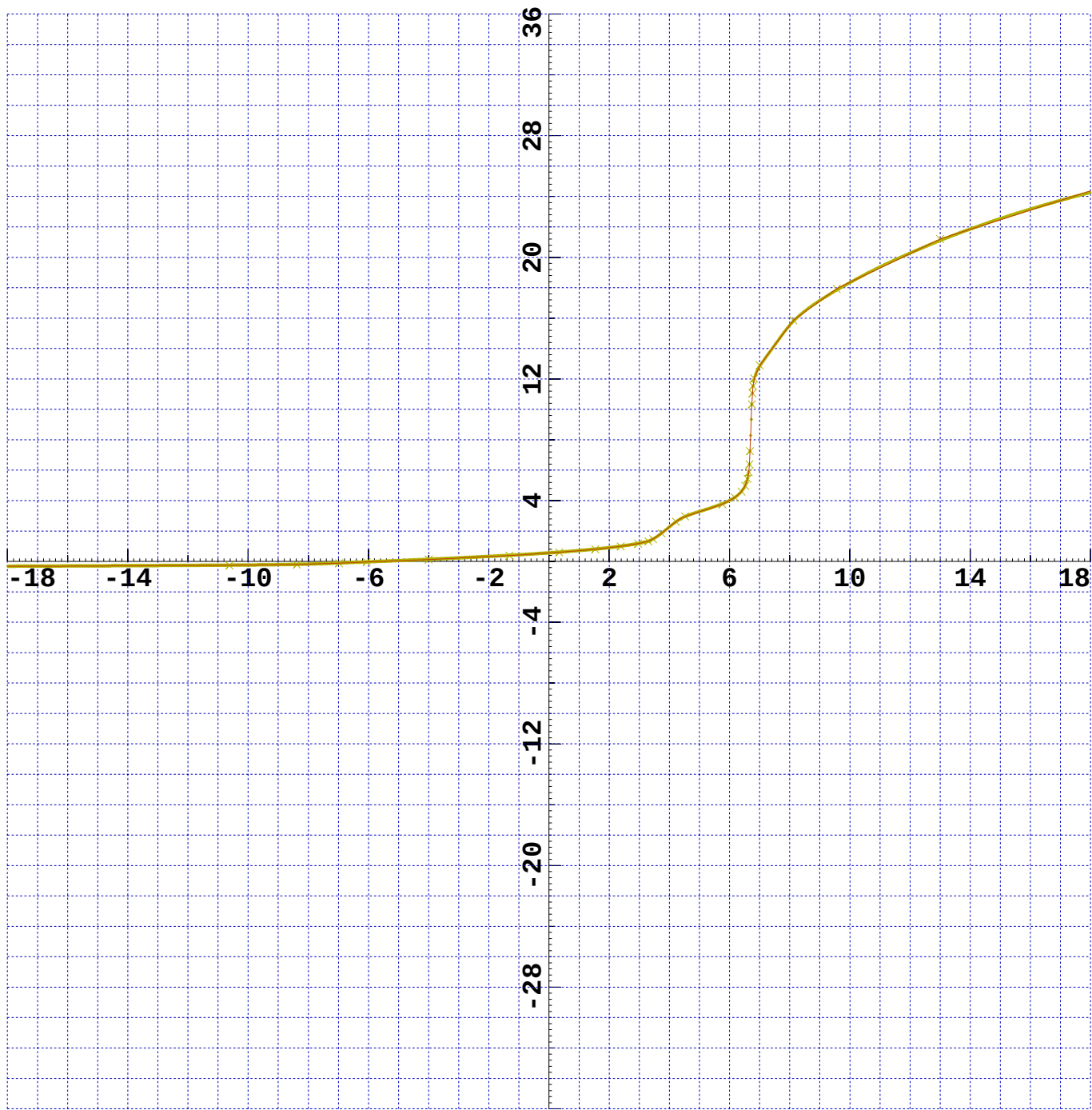
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZW1

Ident: kpfr_015

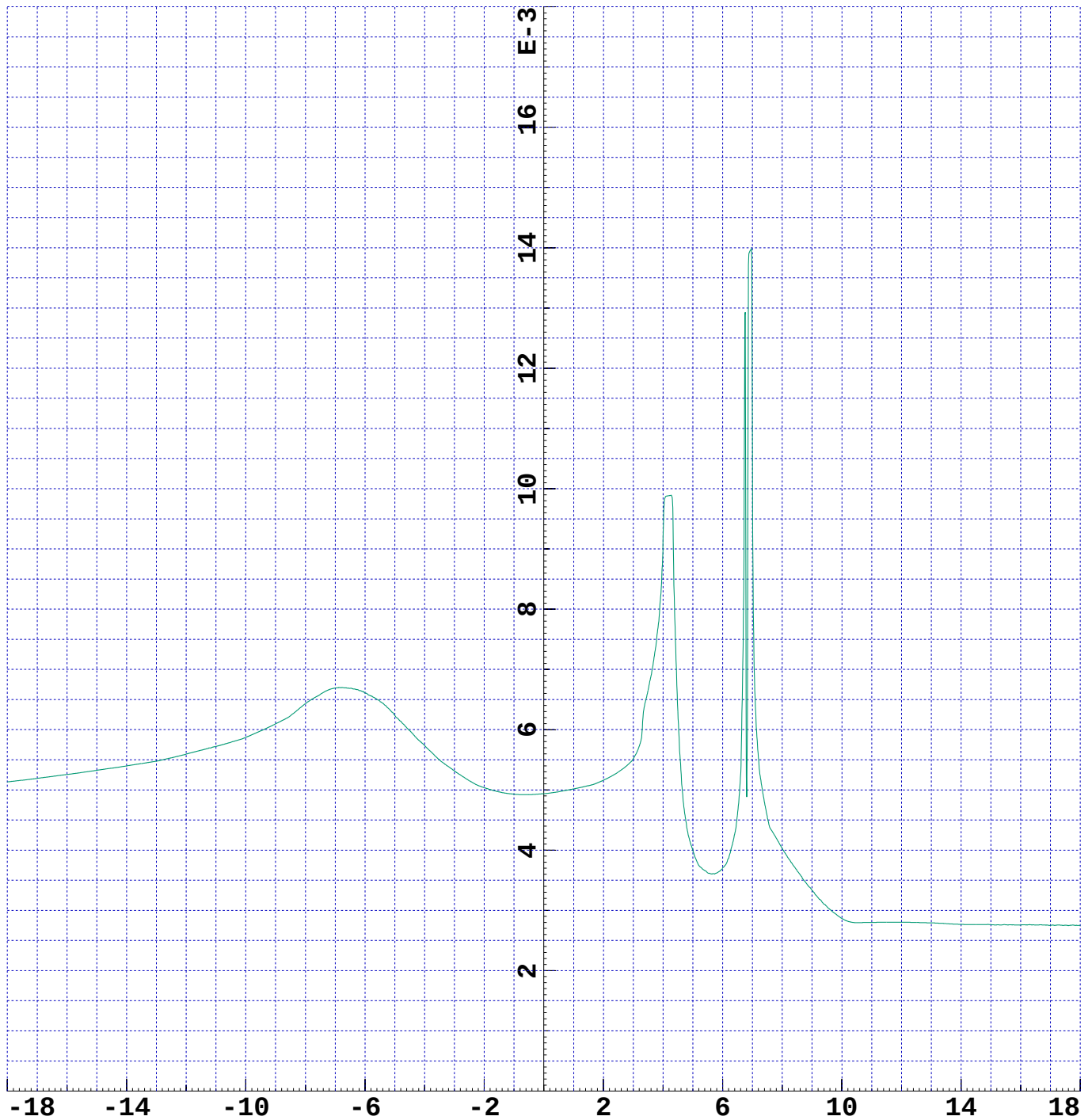




Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZR1

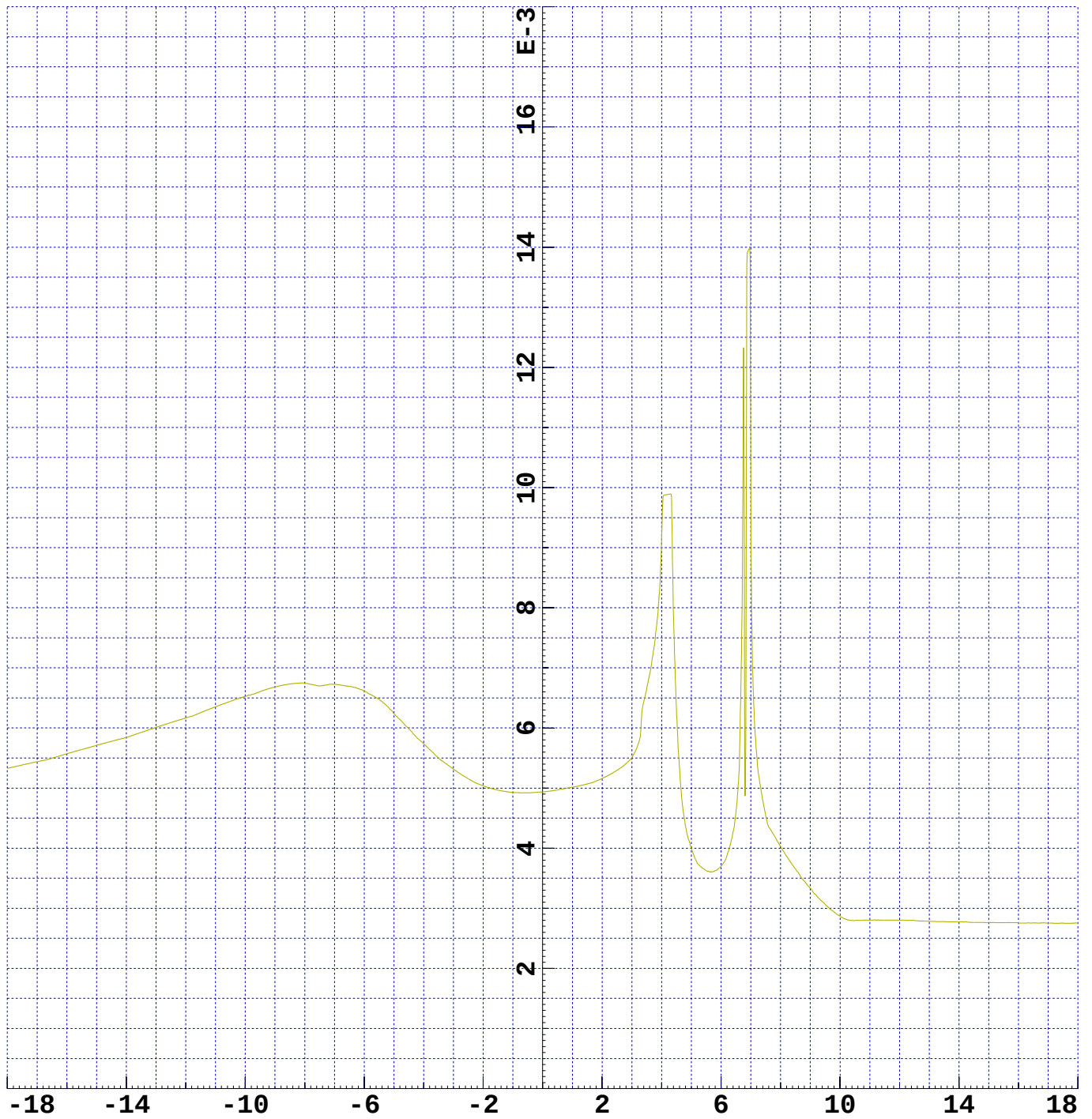
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

C_r

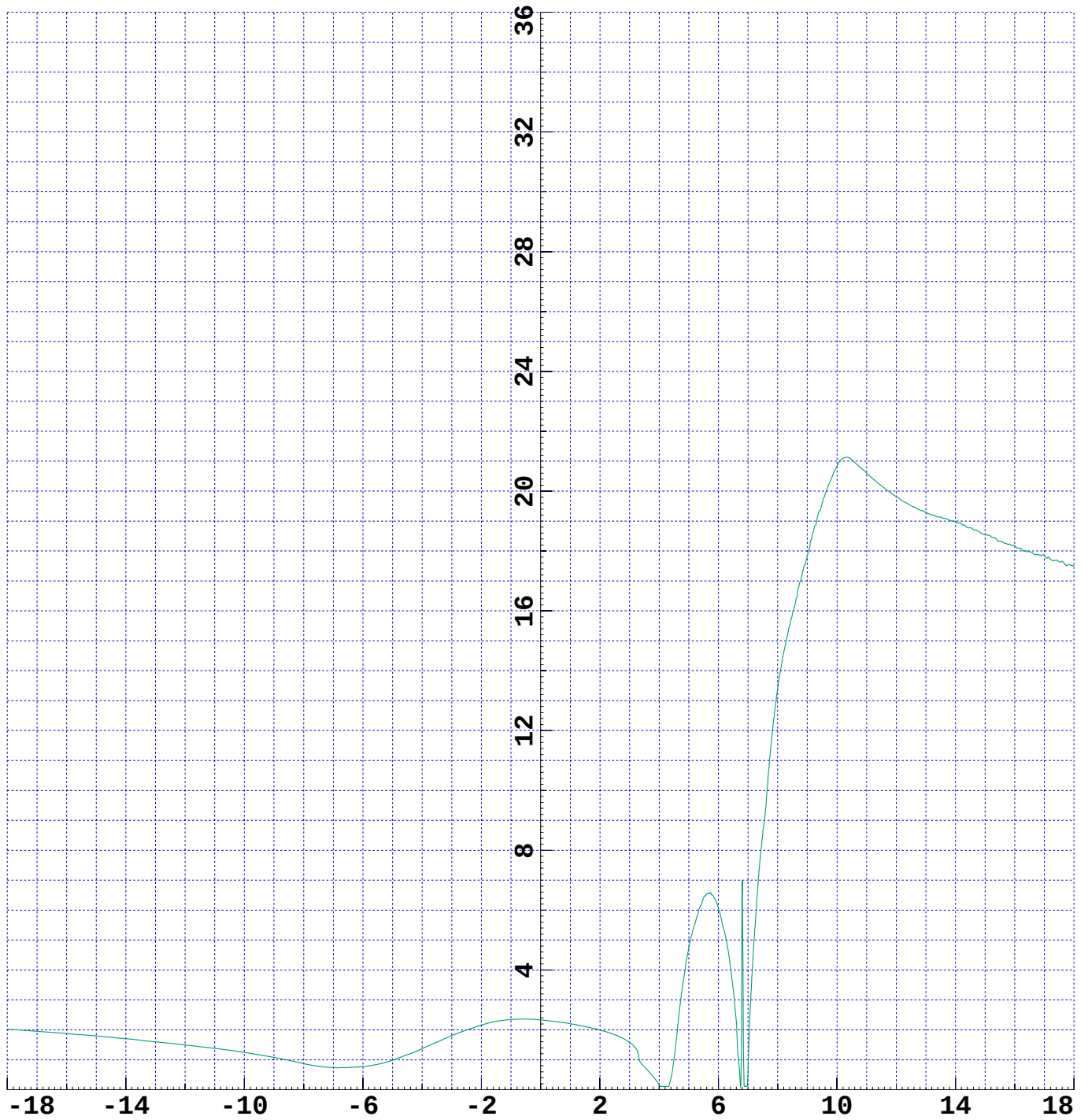
Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

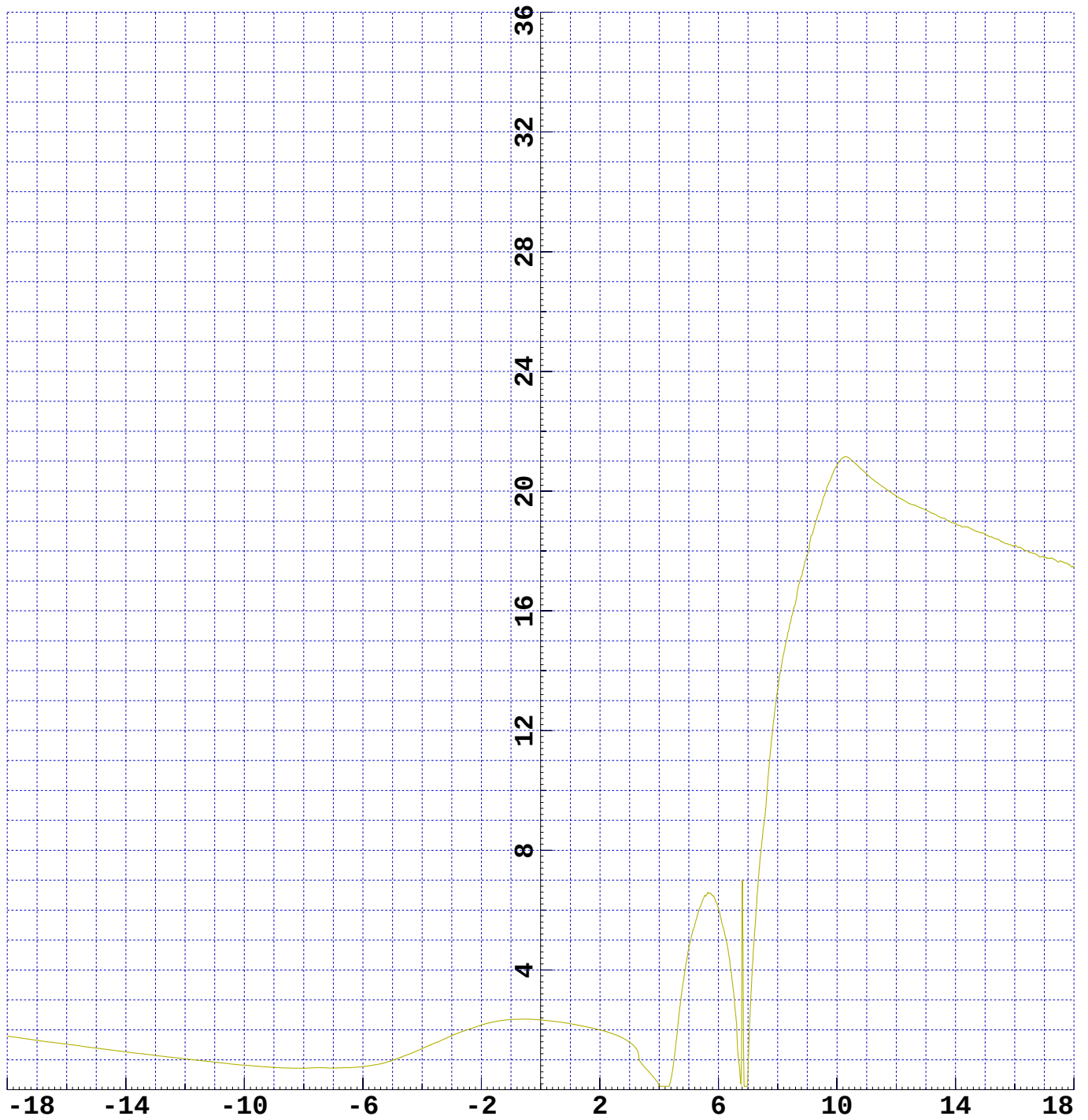
C_1

Ident: kpfr_015



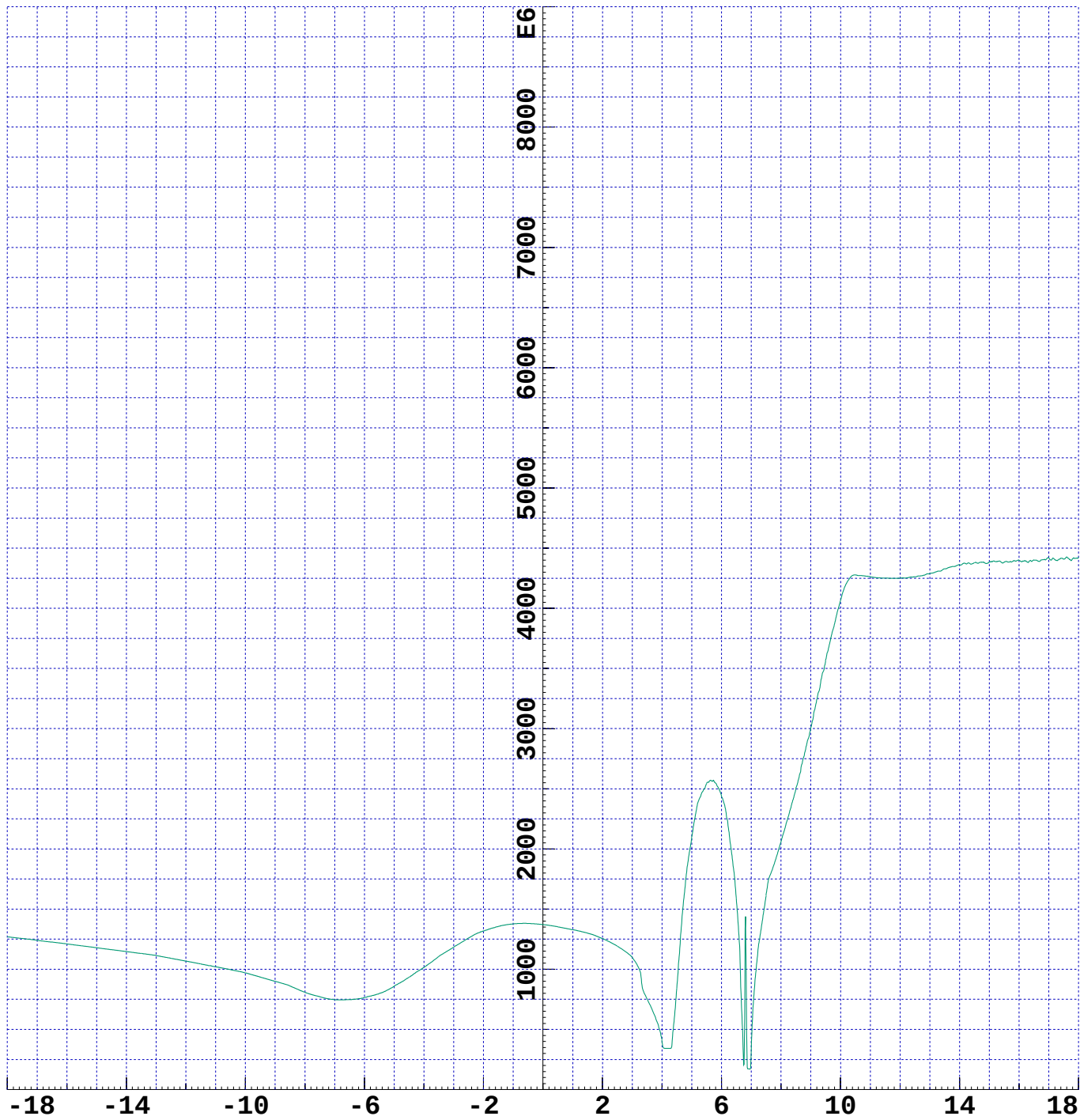
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015



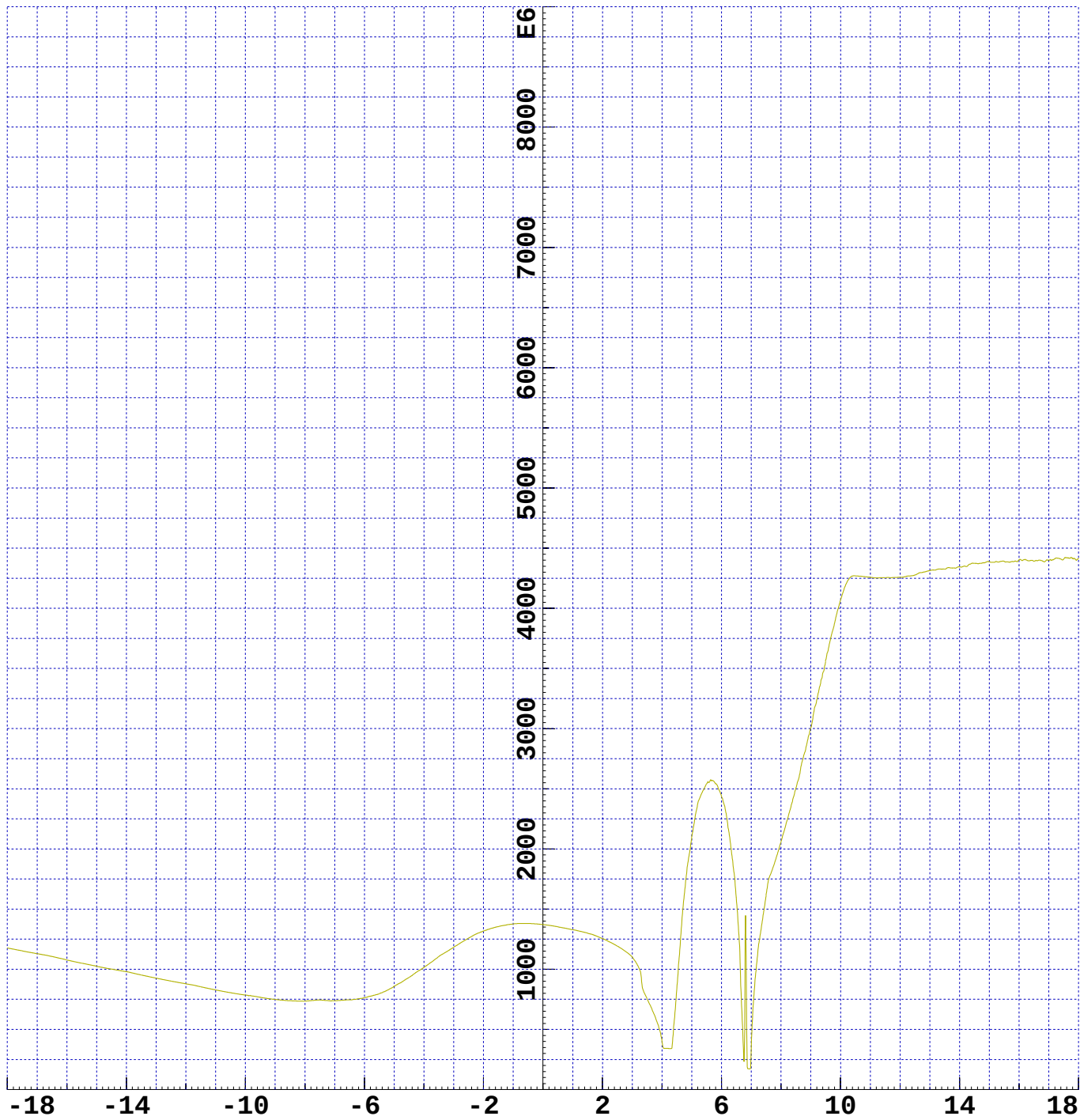
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015

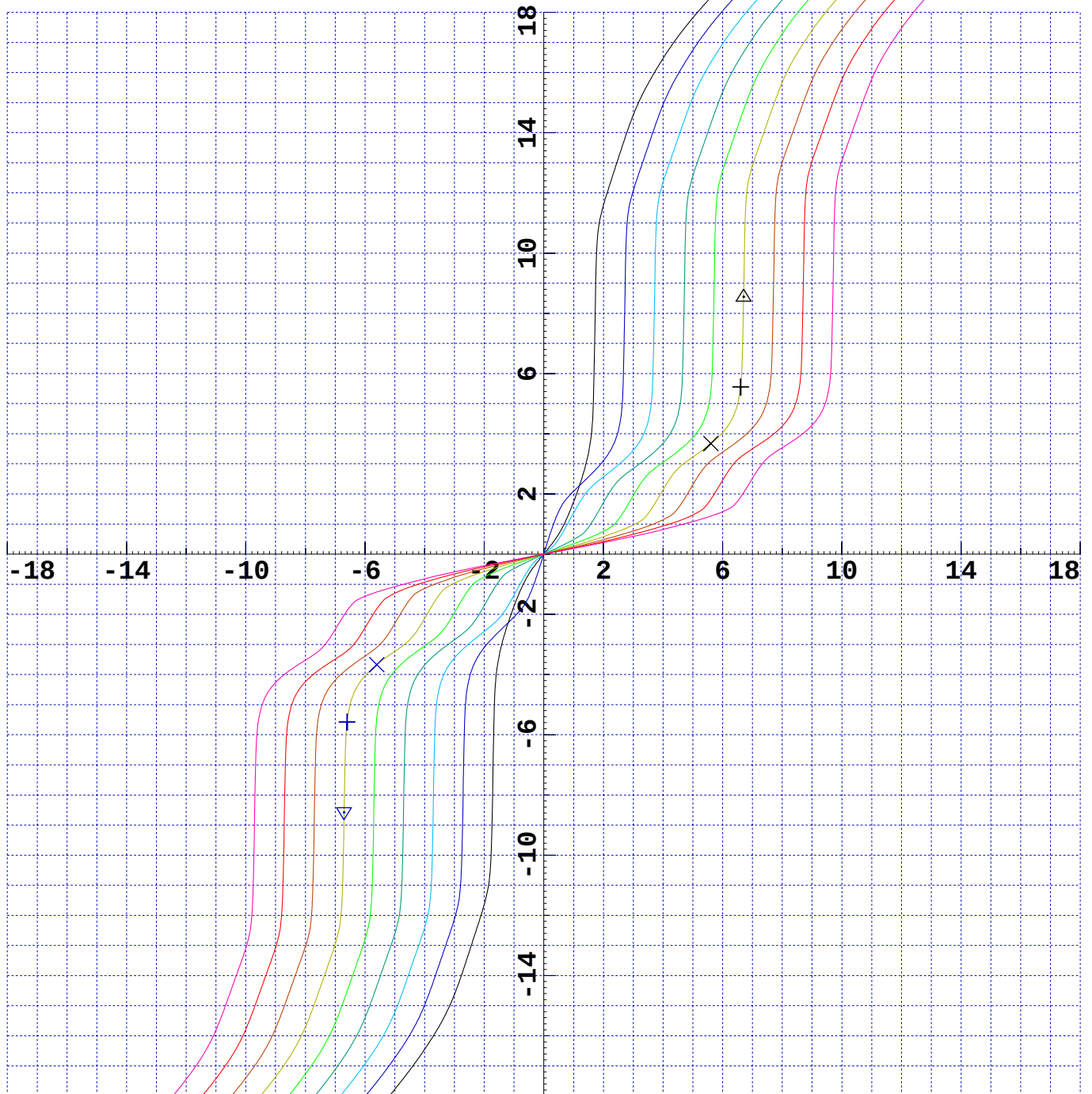
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

× = $\Delta r_E = 3.67$ left curve
 × = $\Delta r_E = 3.67$ right curve
 + = $A0r = 6.60$ 5.56
 + = $A0l = -6.60$ -5.58

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/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
 wprof_lat_shift=0 Gauge= 1425-1441

rr-rl

Ident: kpfr_015

GENSYS-KPF.1308

Delta_Y=

.1

.5

2

3

4

6

Gauge= 1425

—

.602

.634

1.272

1.316

1.284

1.202

1427

—

1.157

1.116

.804

1.095

1.195

1.160

1429

—

.386

.458

.652

.588

.913

1.086

1431

—

.227

.229

.356

.450

.451

.939

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

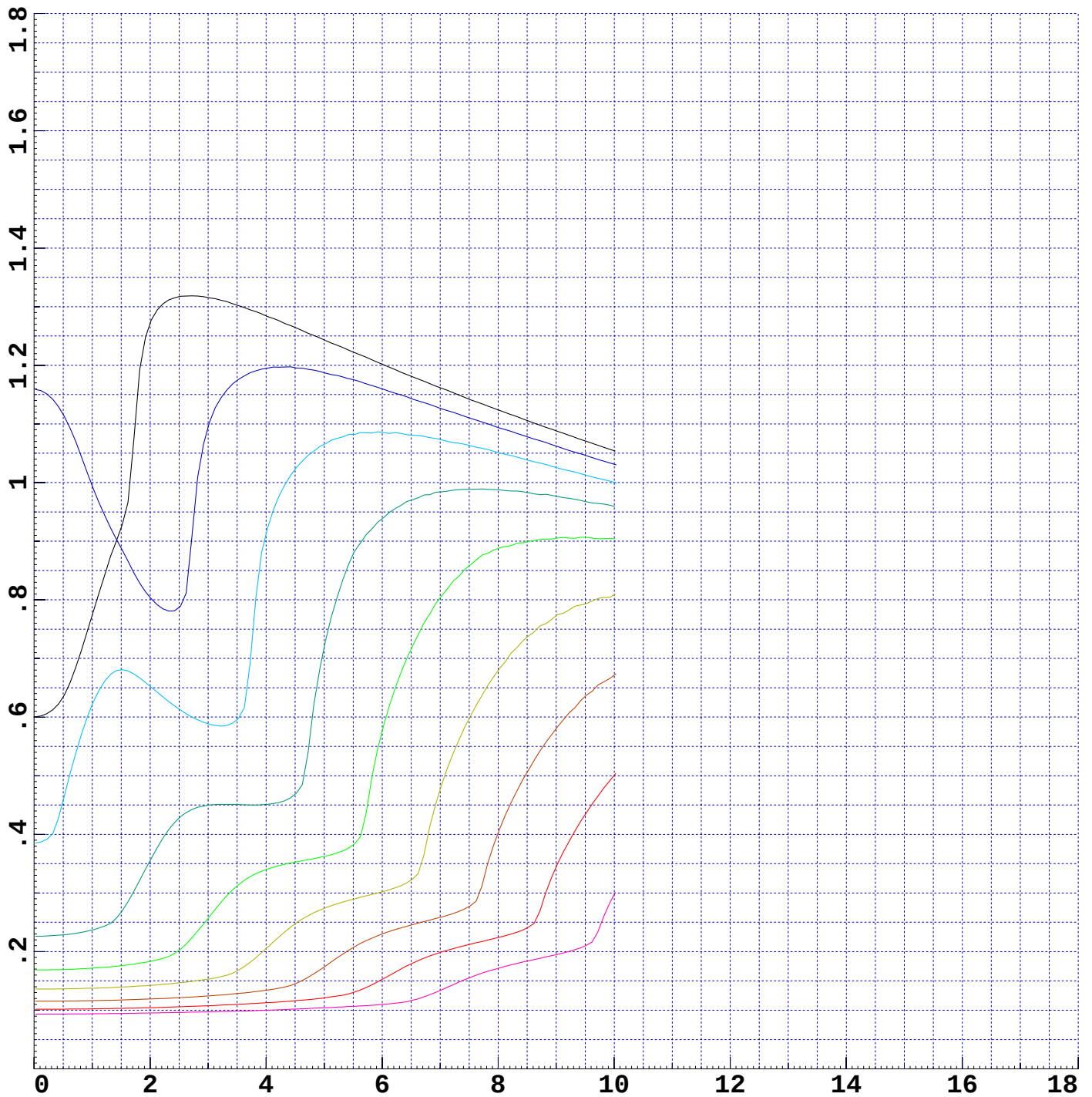
.093

.095

.097

.100

.110



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

Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

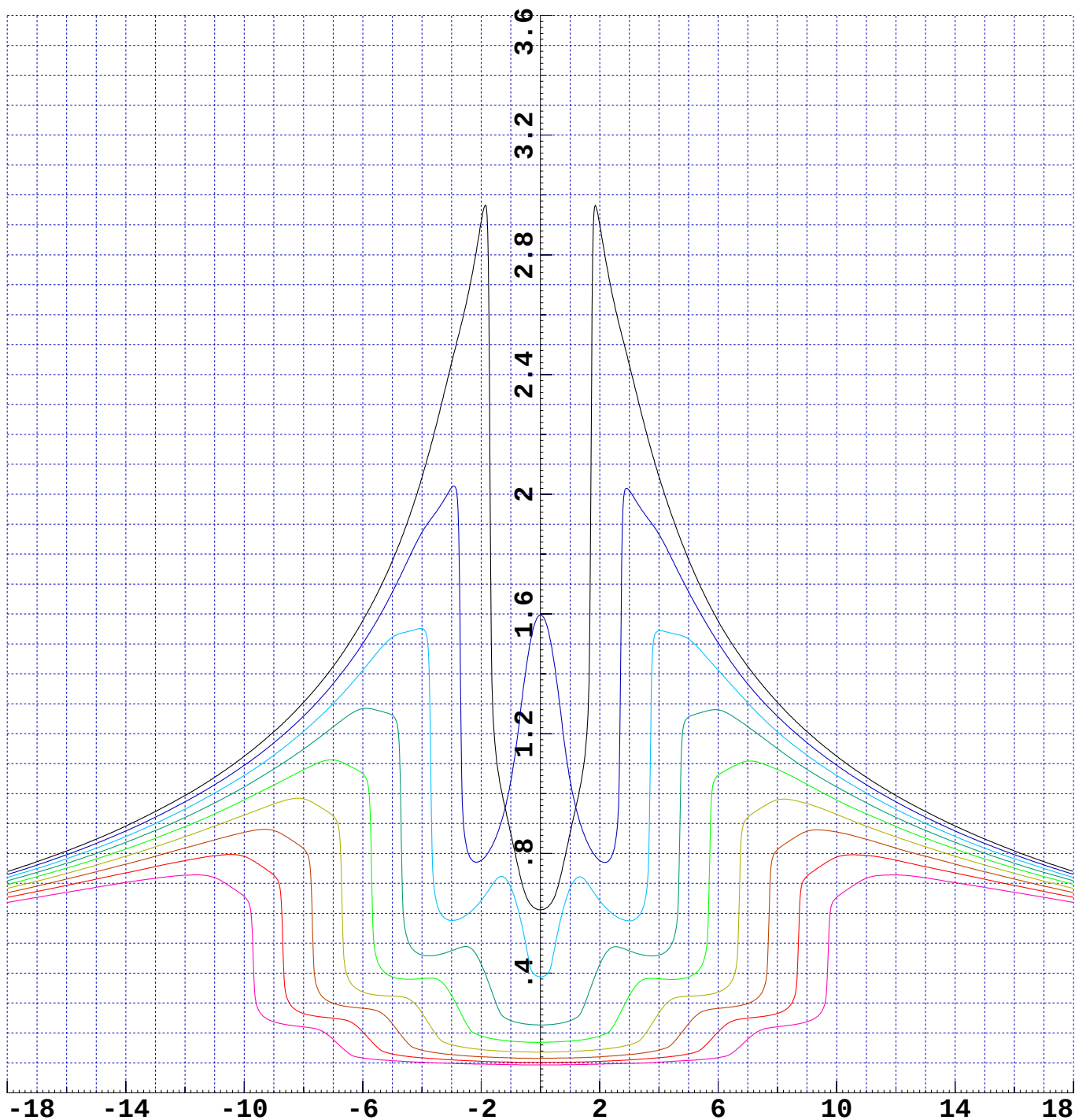
UIC519

Ident: kpfr_015

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



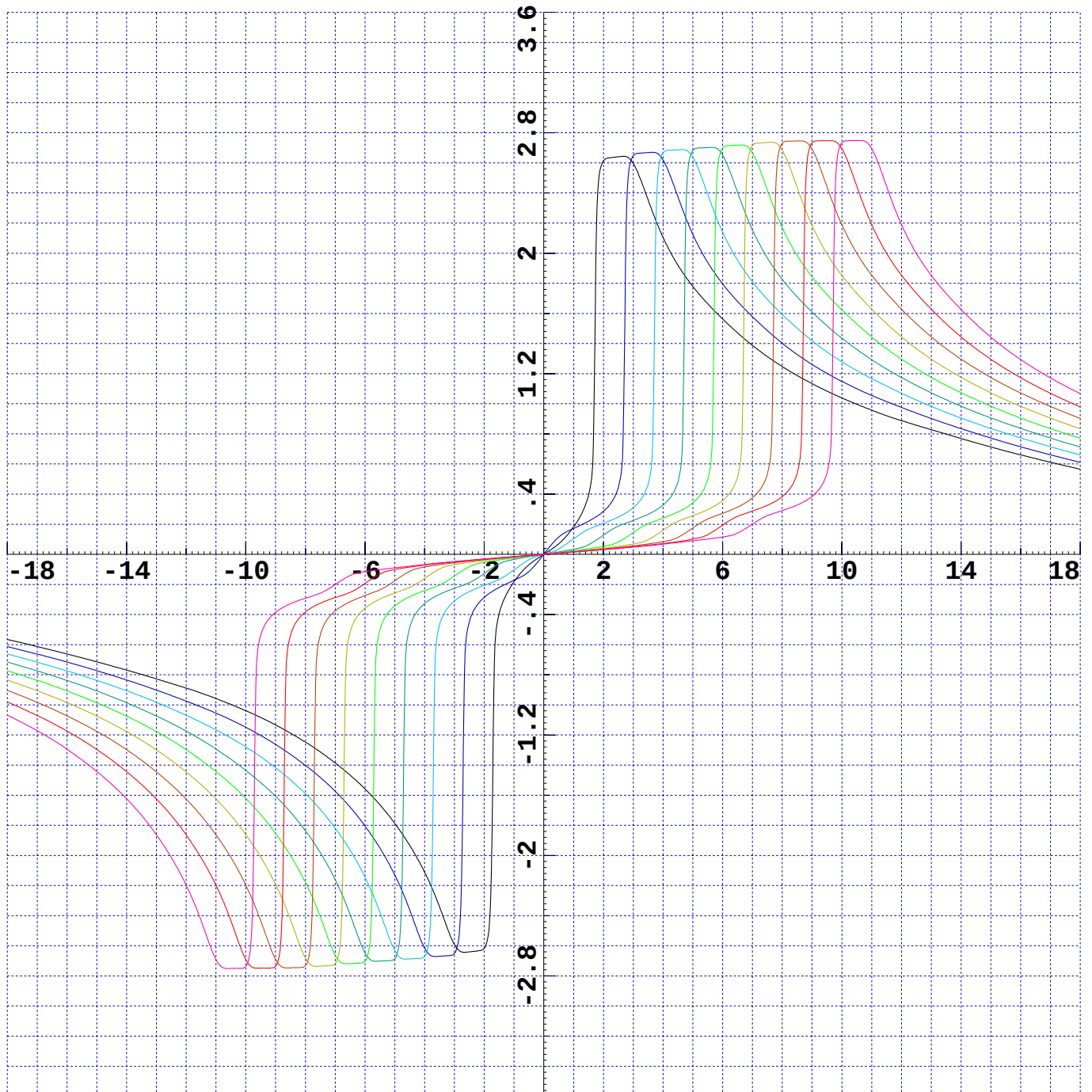
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

lambda

Ident: kpfr_015

GENSYS-KPF.1308

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

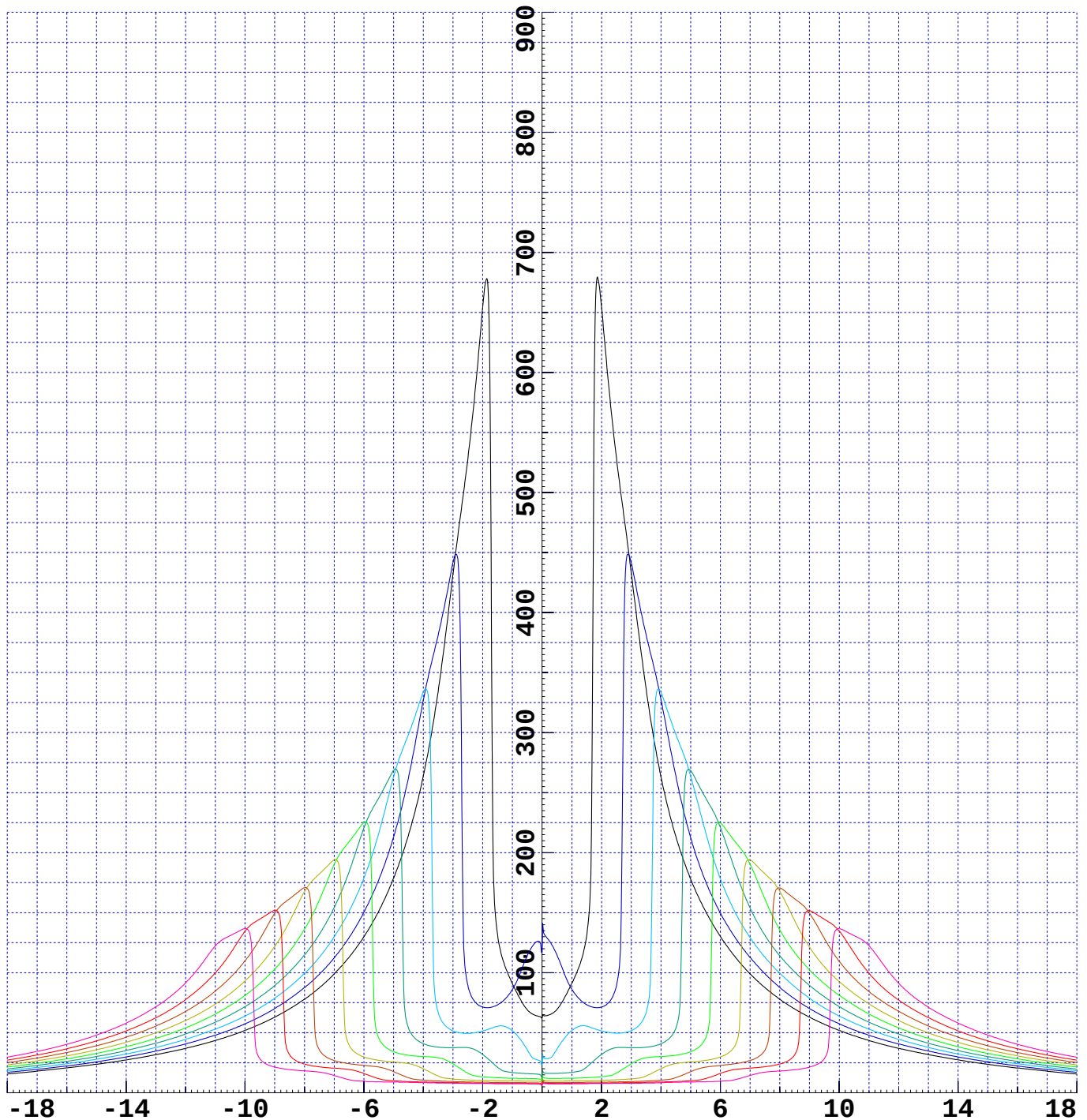


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel $\tan_{Ga}$
 Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	64.17	69.44	653.55	432.55	263.02	130.21
1427	—	130.94	114.73	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	—	12.16	11.94	13.38	24.19	30.16	224.86
1435	—	9.98	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

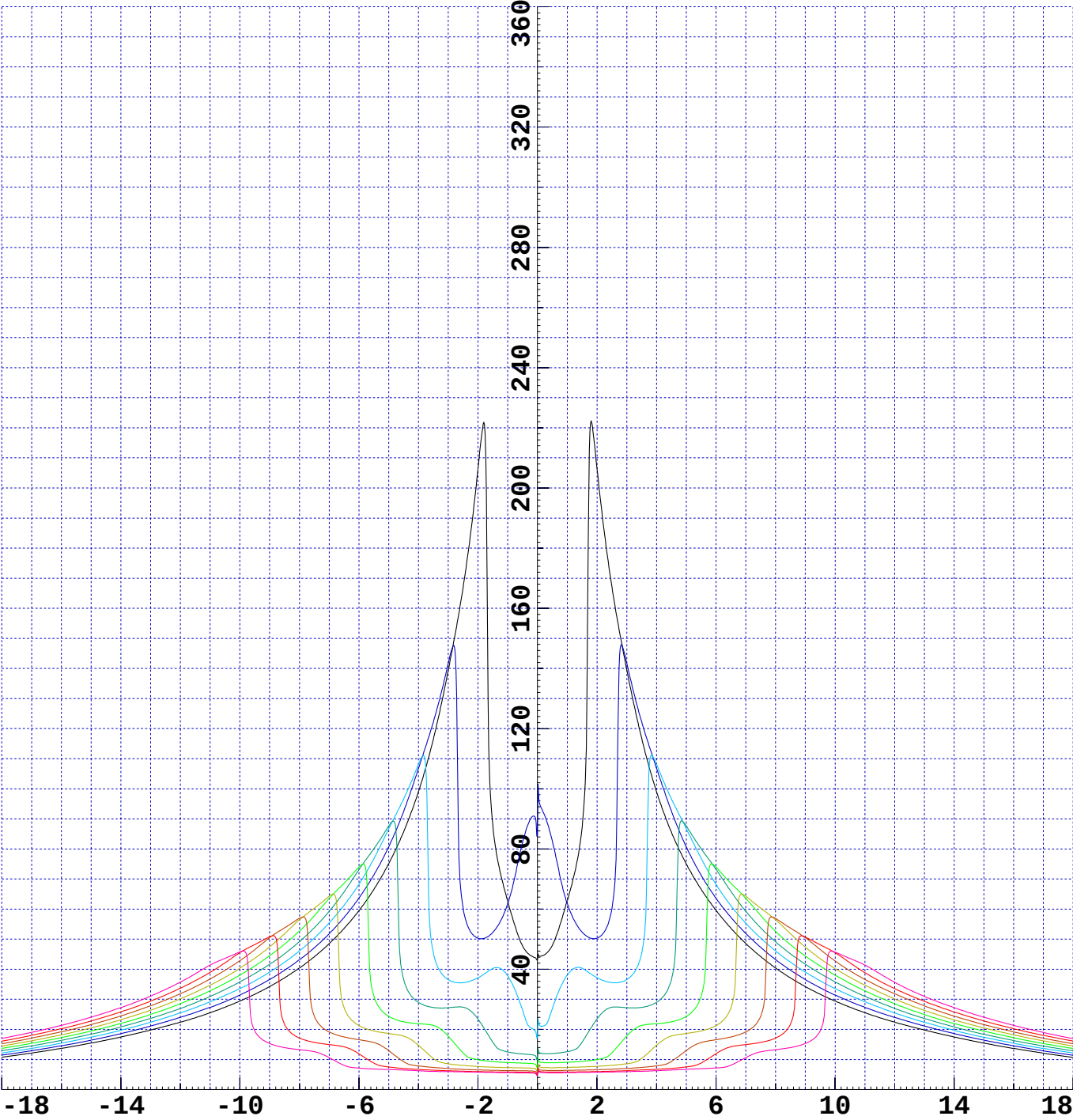


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel KAPPA
Left rail: r_prof/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_015

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	44.32	47.90	206.25	139.41	98.98	59.57
1427	—	94.27	82.58	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	—	9.05	8.89	9.95	17.80	21.87	73.98
1435	—	7.44	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/SEC015_l.short.rail Right rail: r_prof/SEC015_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

EPS

Ident: kpfr_015

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

