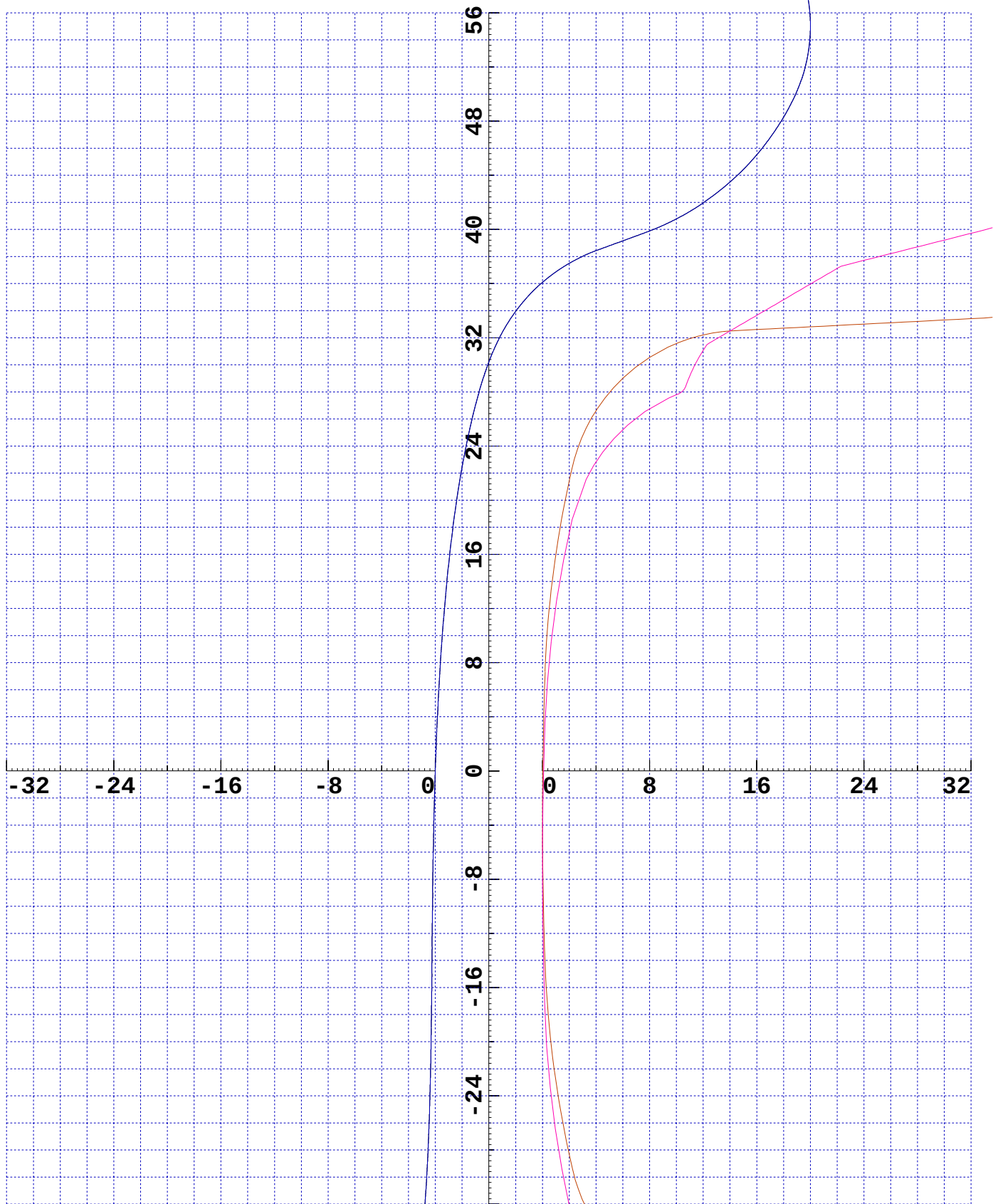
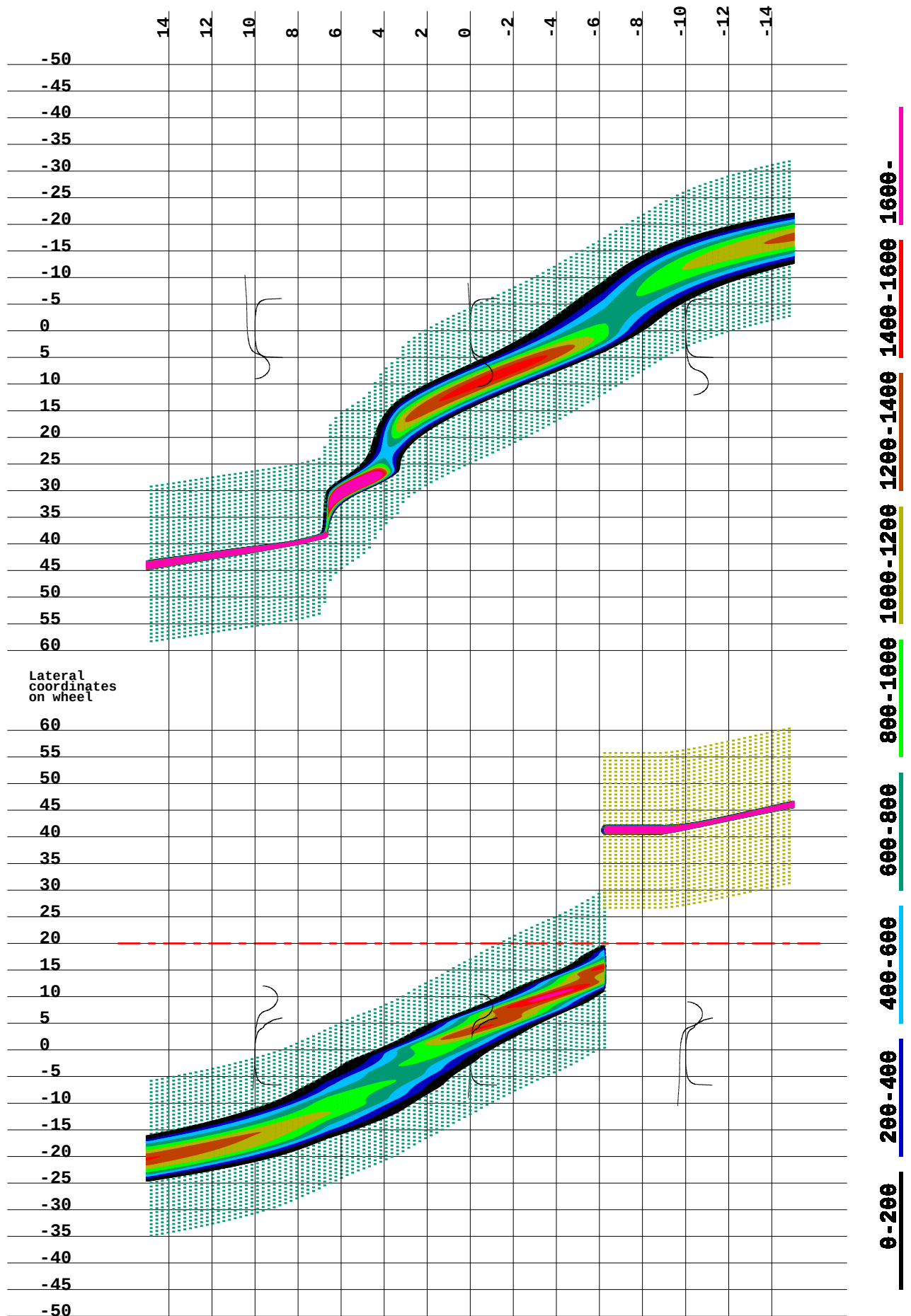


- Right wheel
- Left wheel
- Right rail
- Left rail



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel WRGEOM
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004

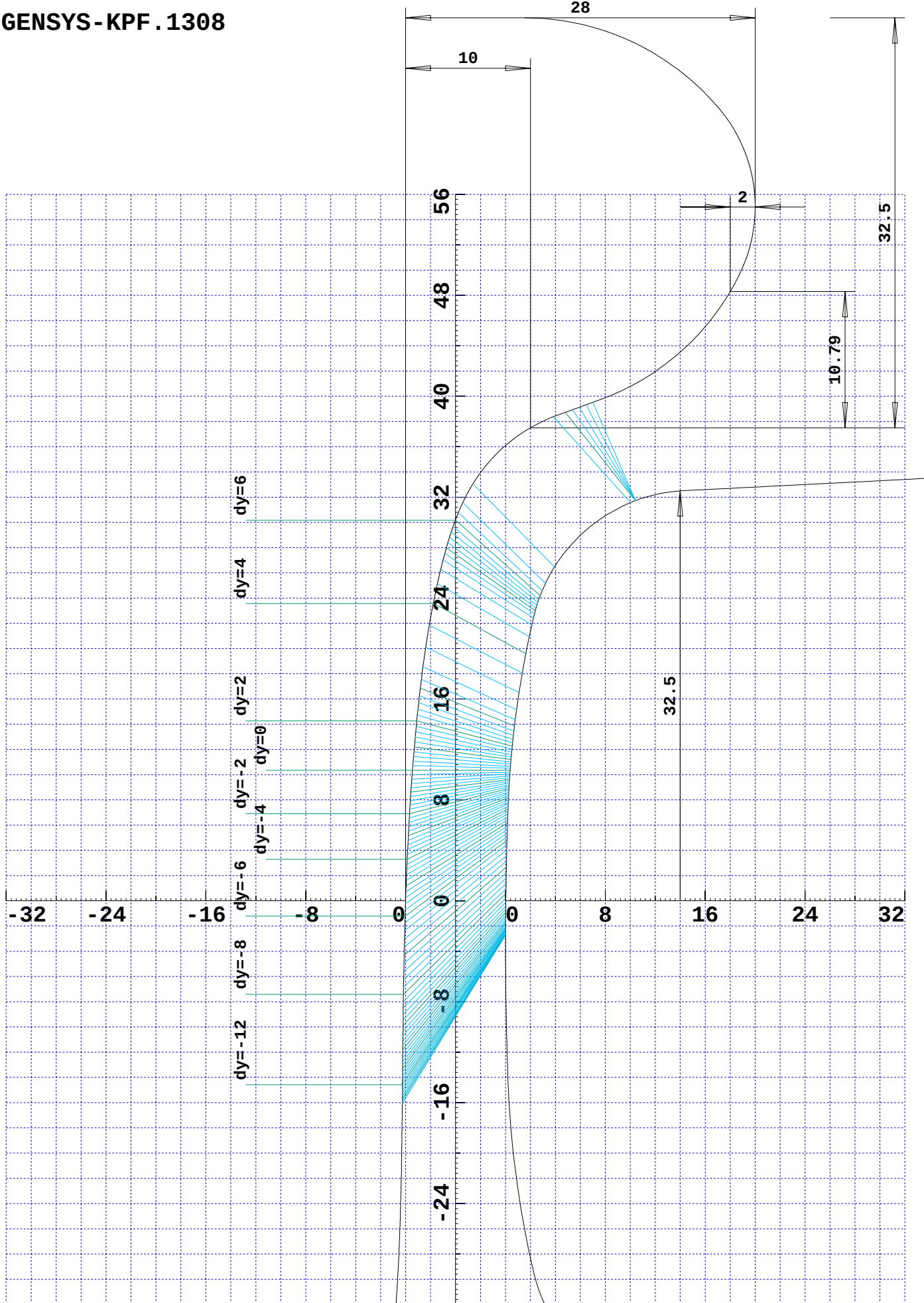


Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel

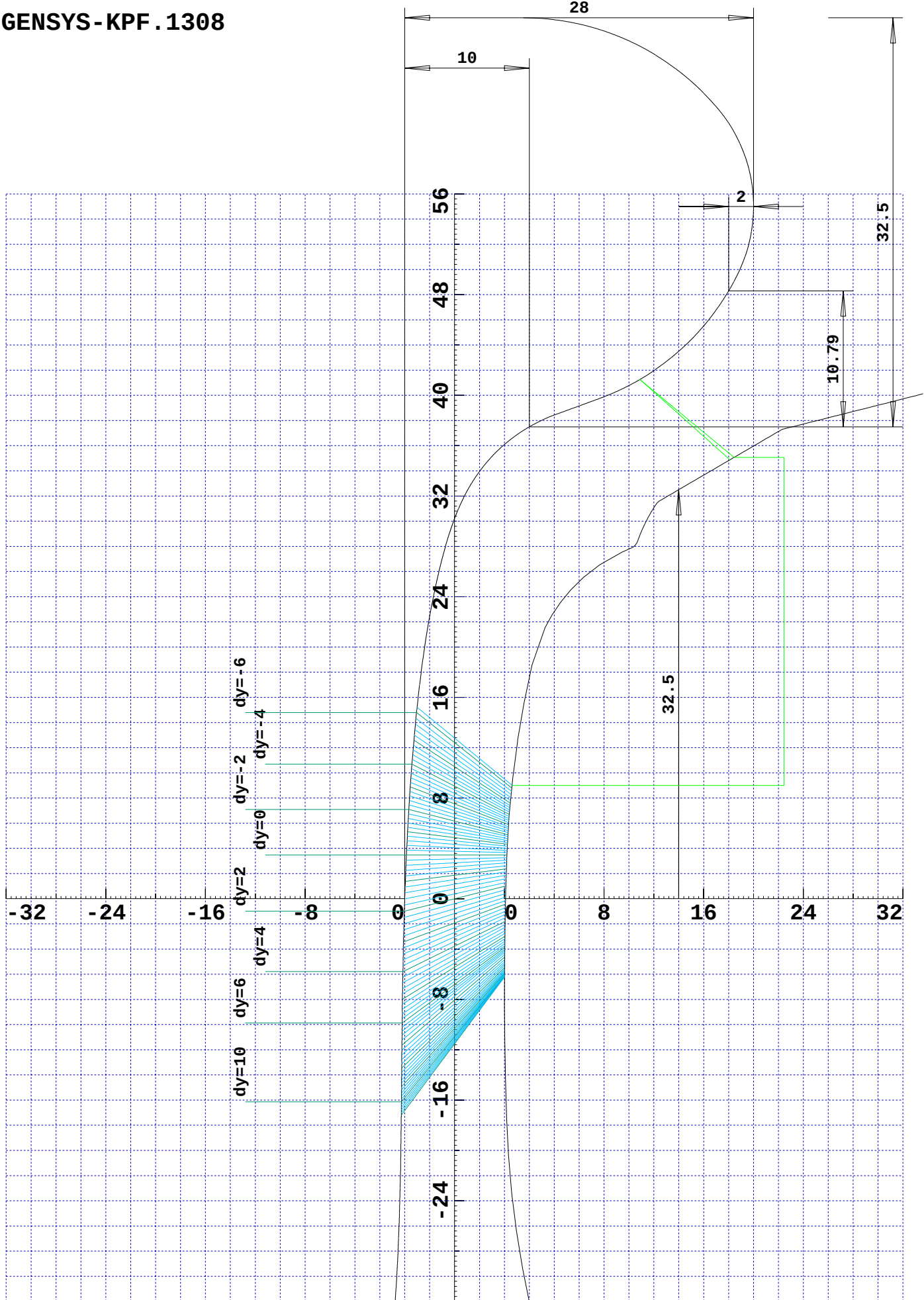
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.sho

Wprof_lat_shift= 0 Gauge= 1425-1441

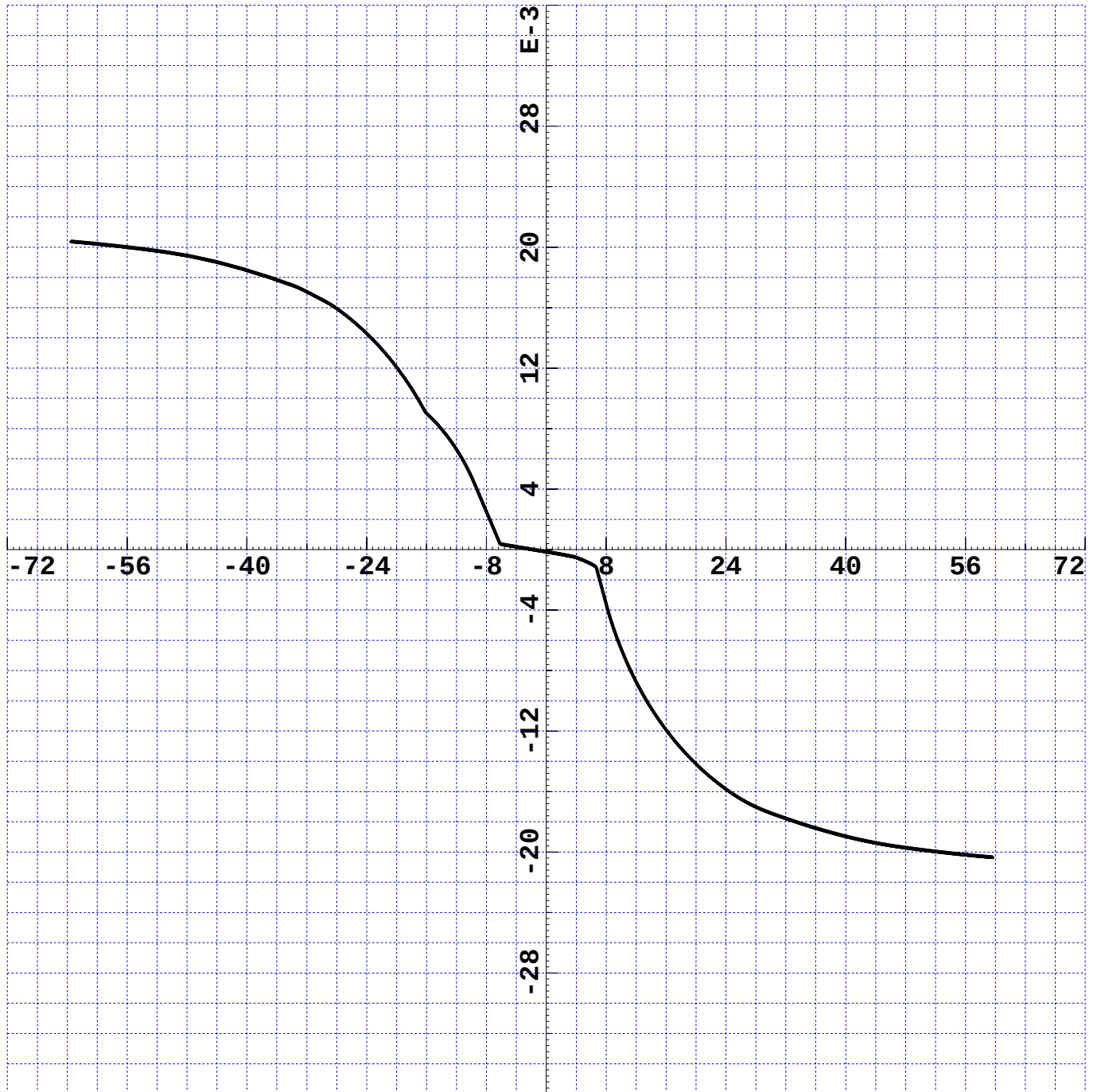
Contact Pressure

**CONNr**

Ident: kpfr_004

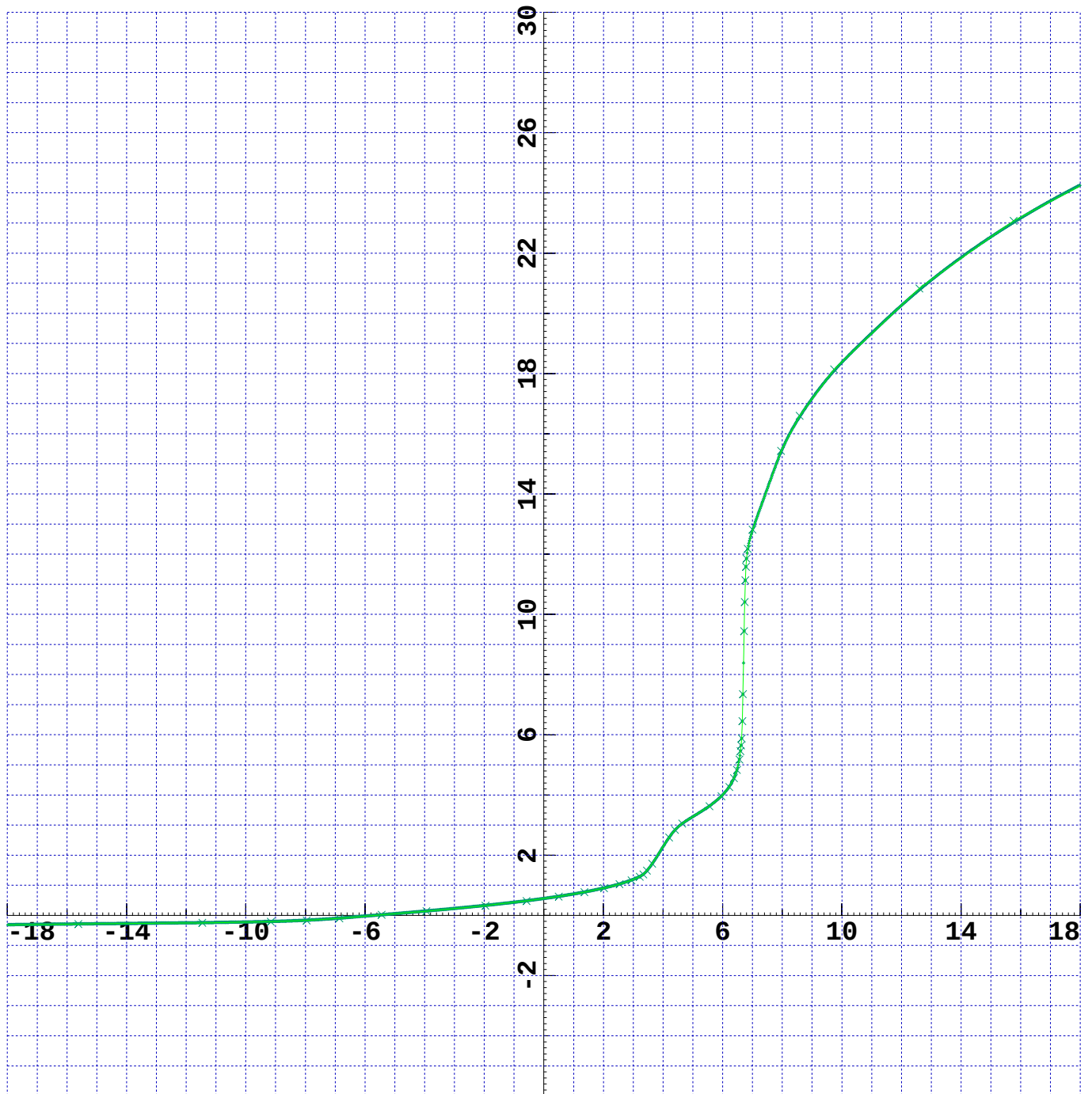


Ident: kpfr_004



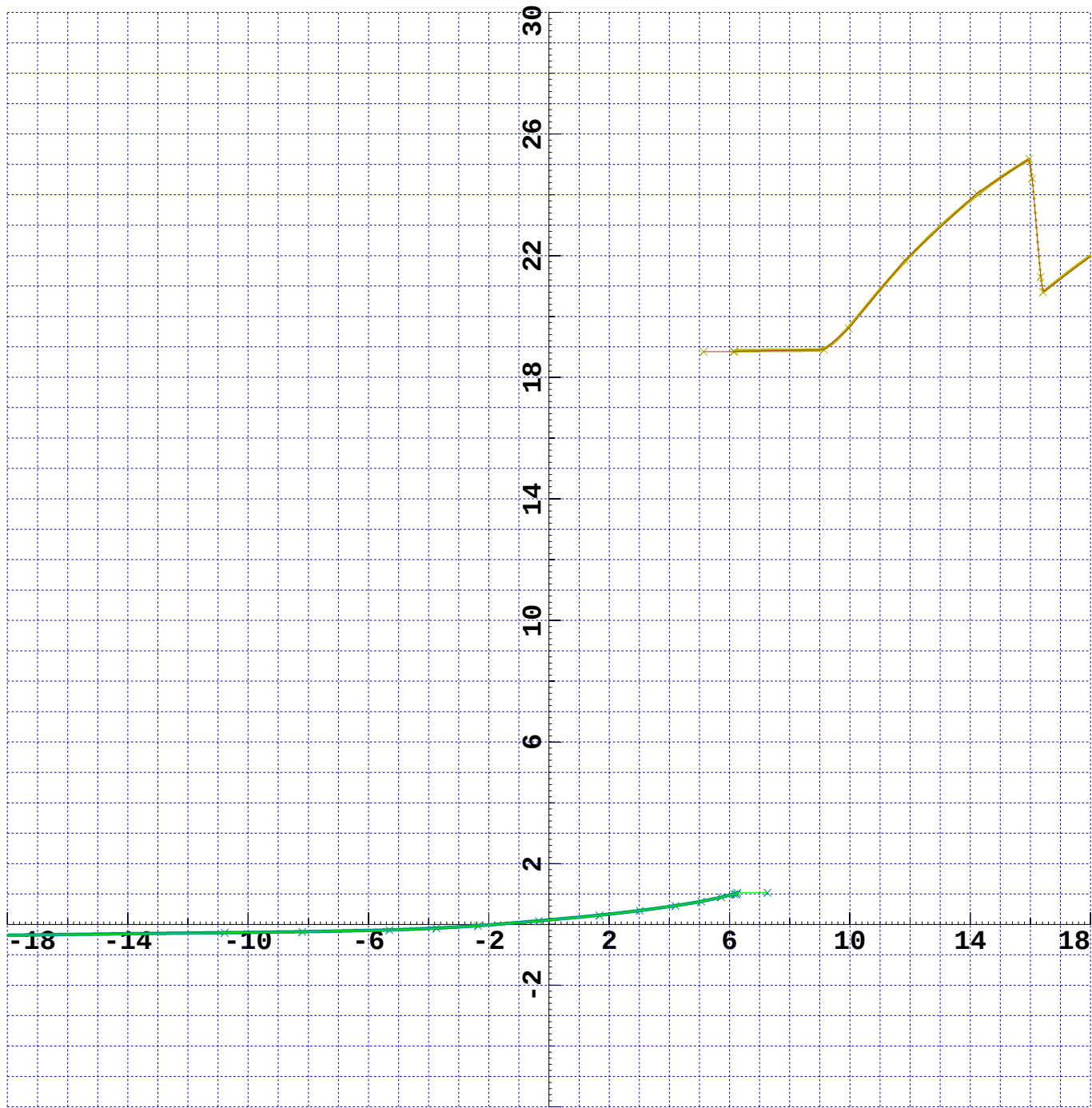
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **Flaxl**
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



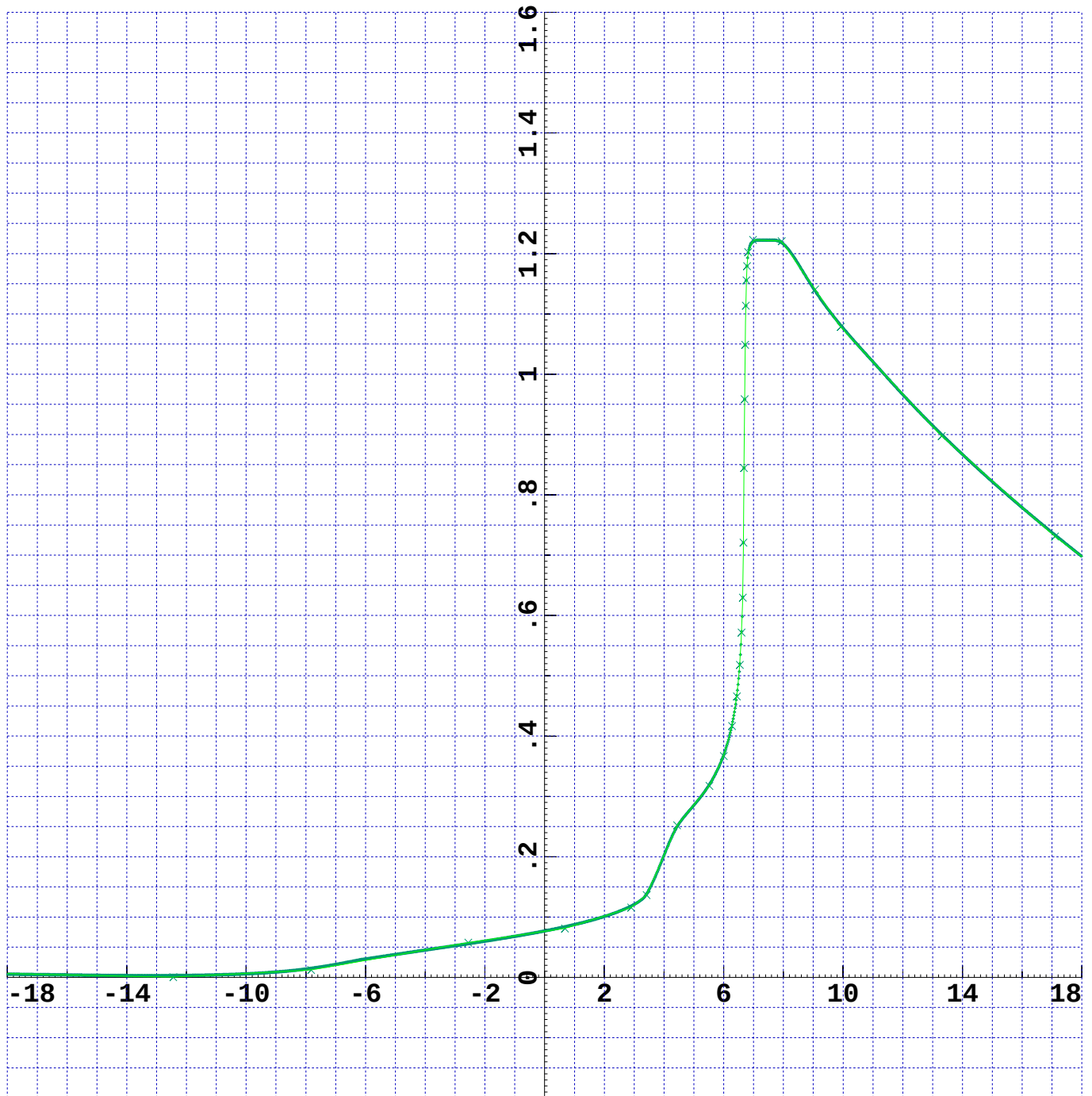
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel DRFNr
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



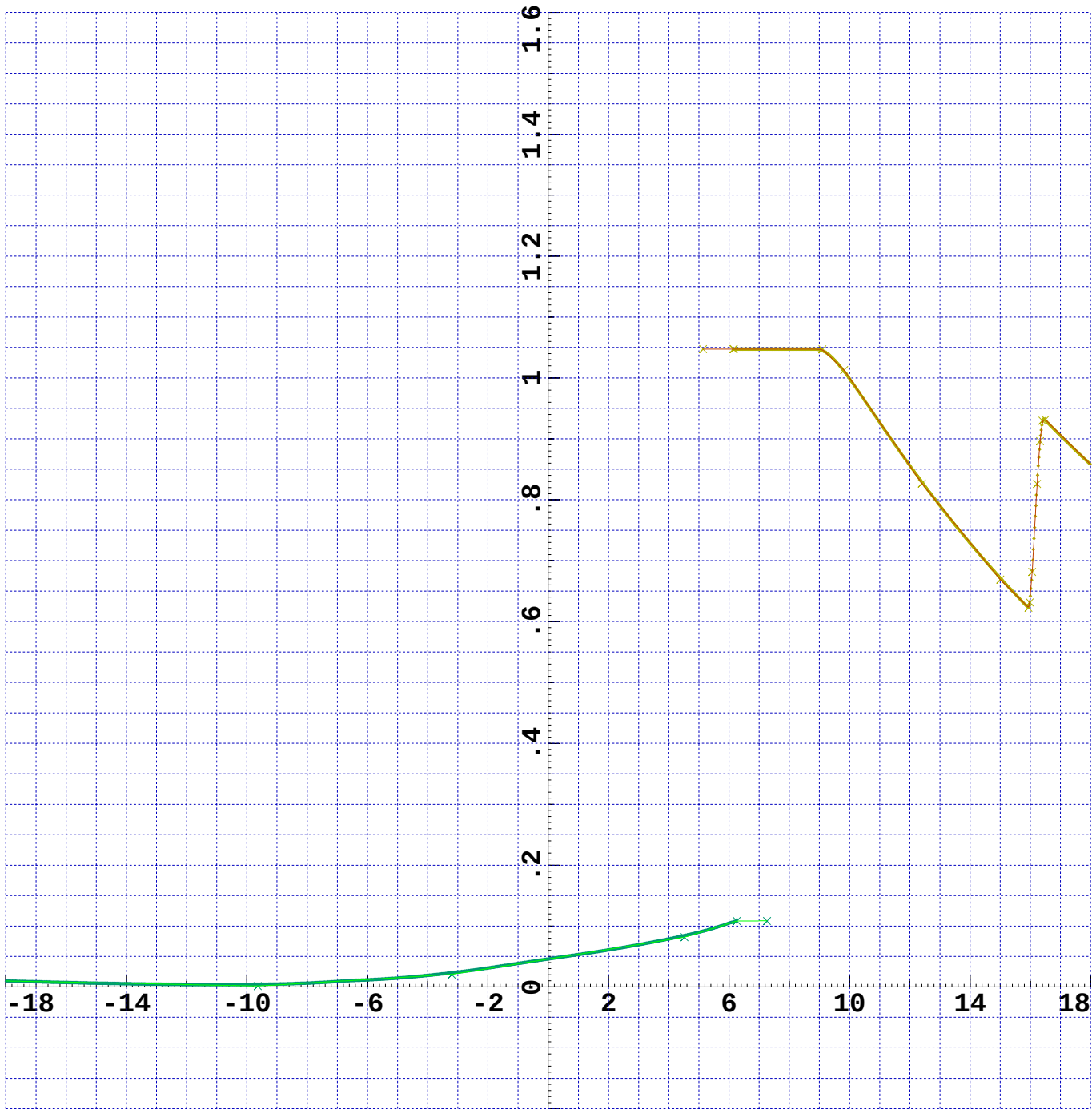
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel DRFN1
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



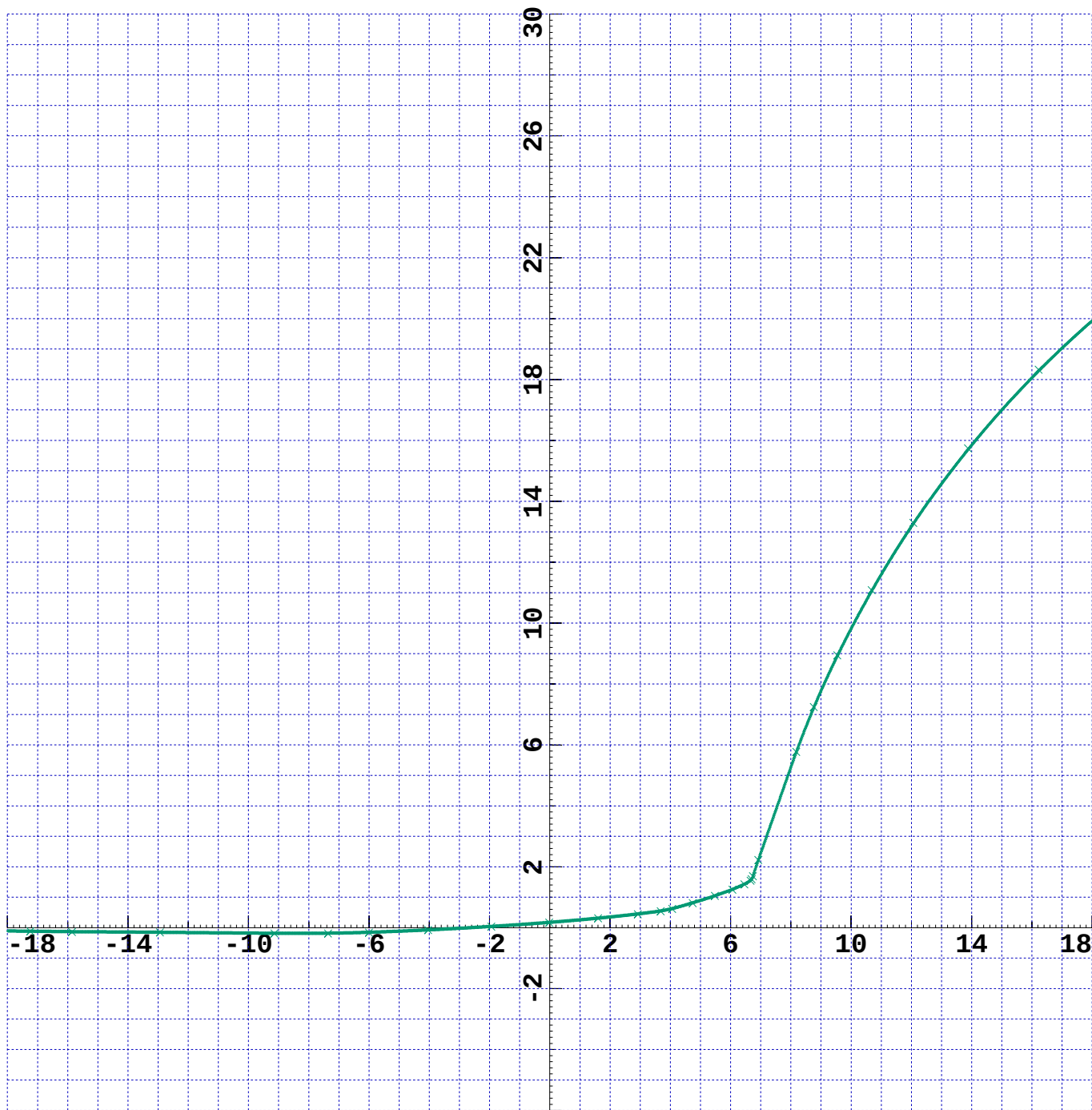
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel GAMFNr
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



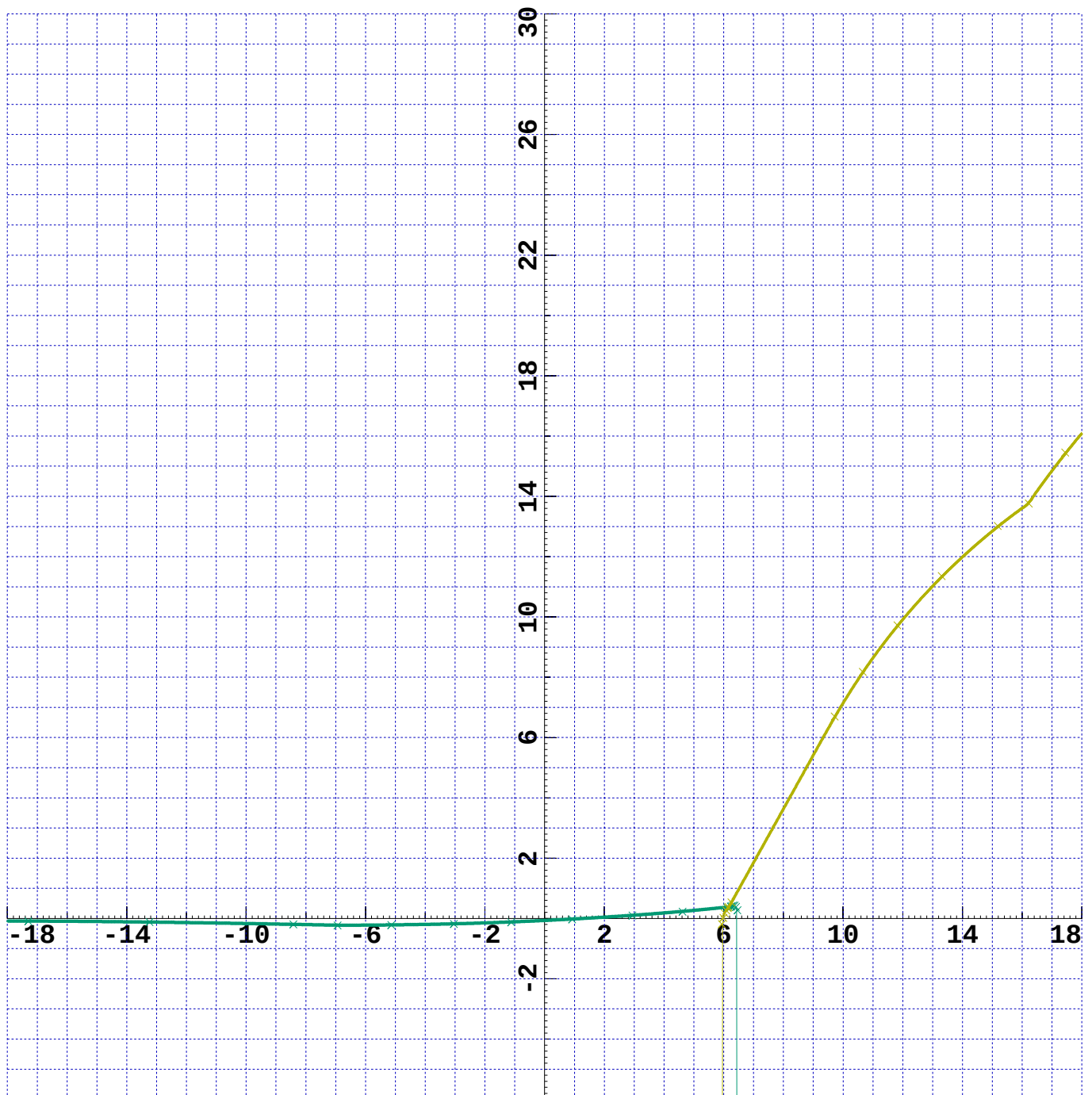
Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel **GAMFN1**
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel ZFNr
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZFN1

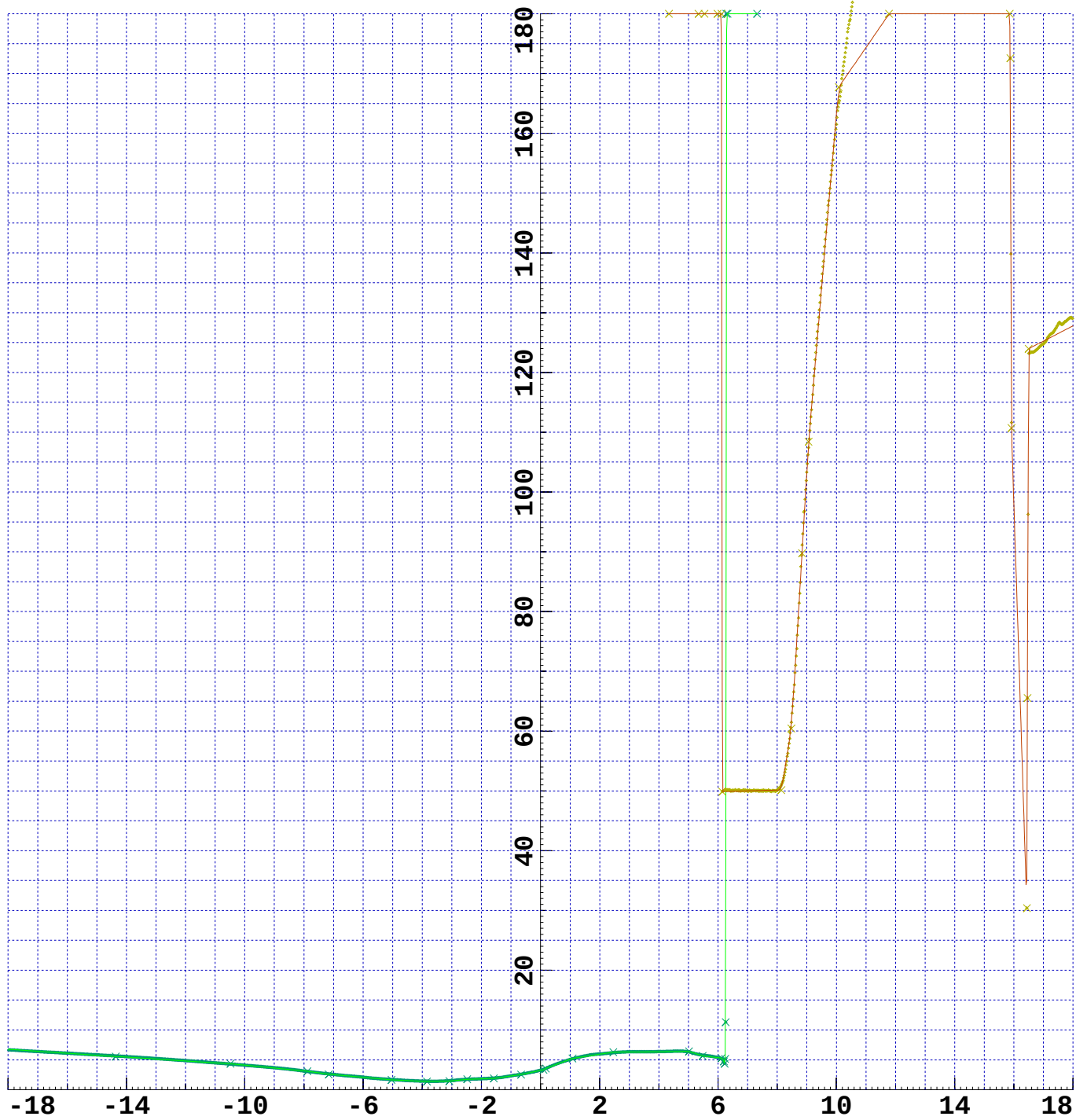
Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFNr

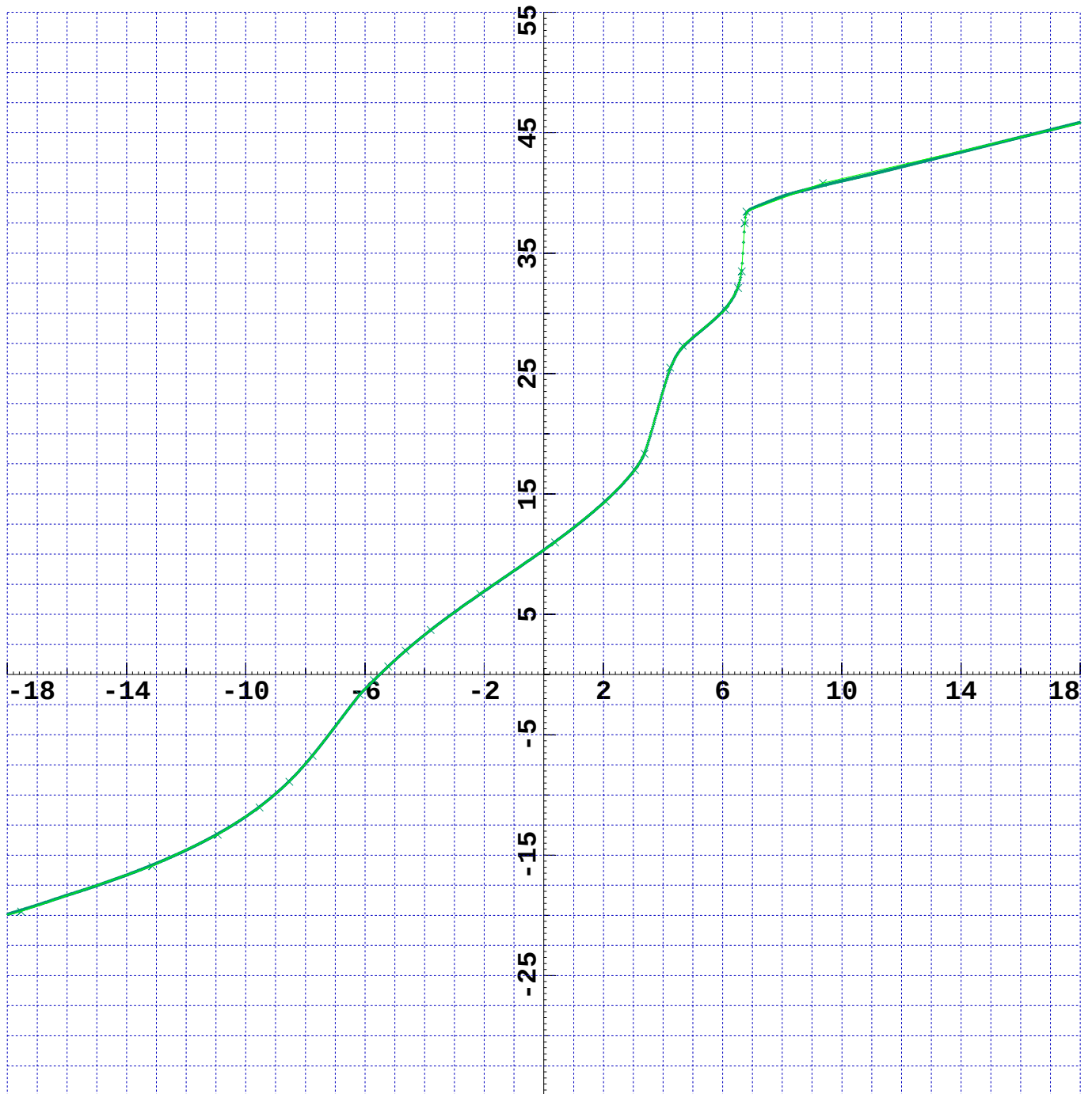
Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ROFN1

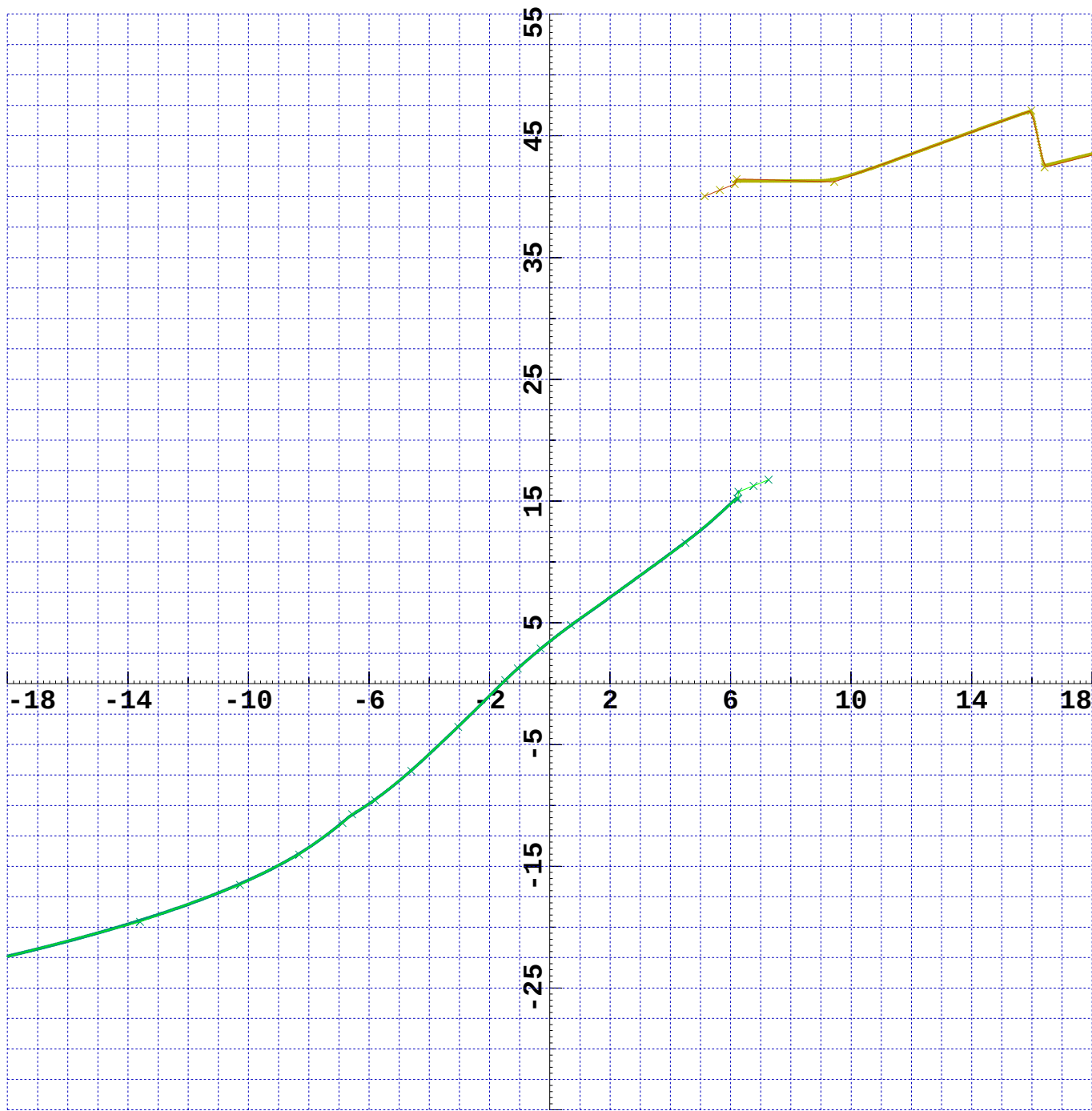
Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

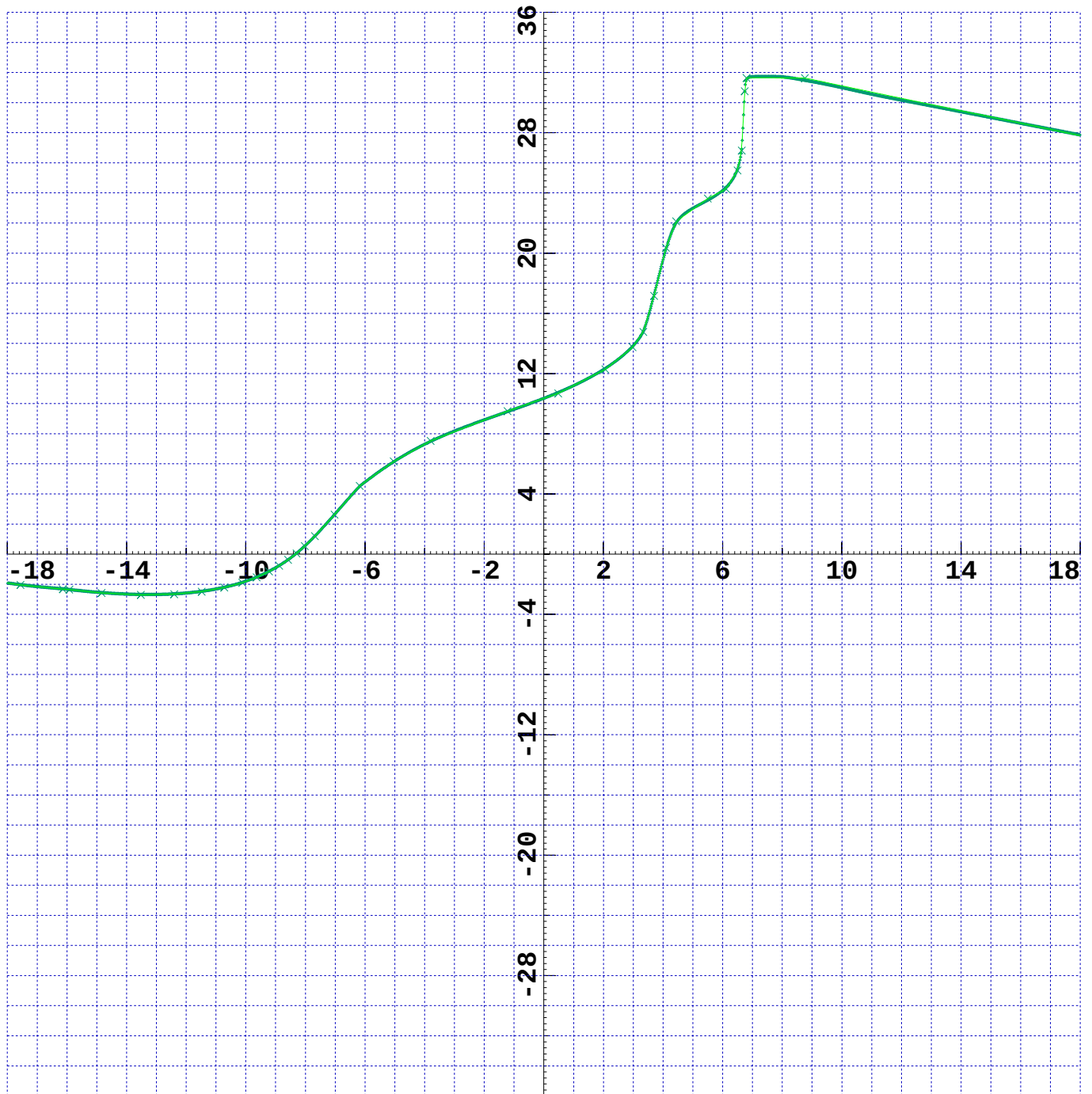
POSWr

Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel POSW1
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

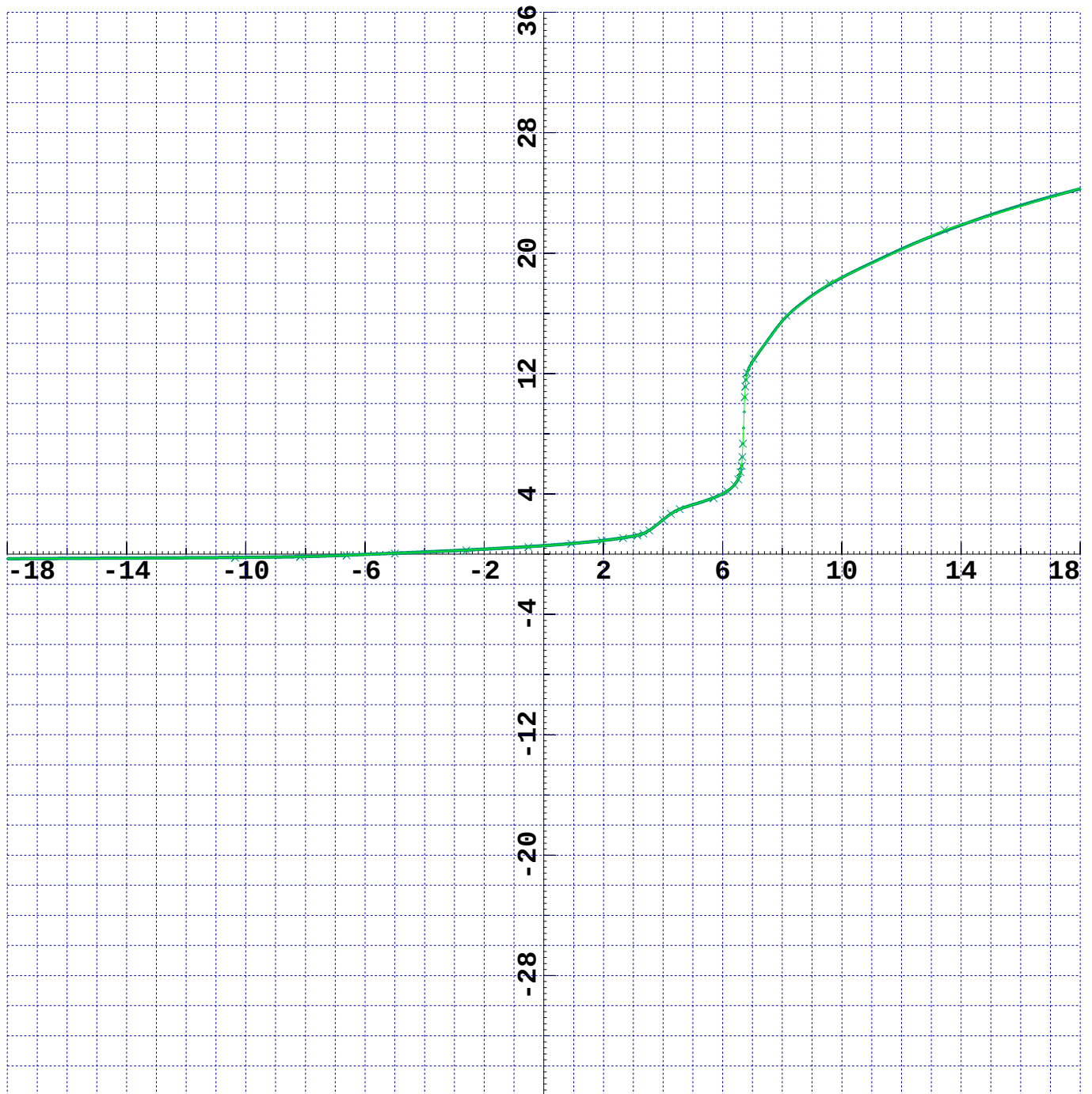
POSRR

Ident: kpfr_004



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel POSR1
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004

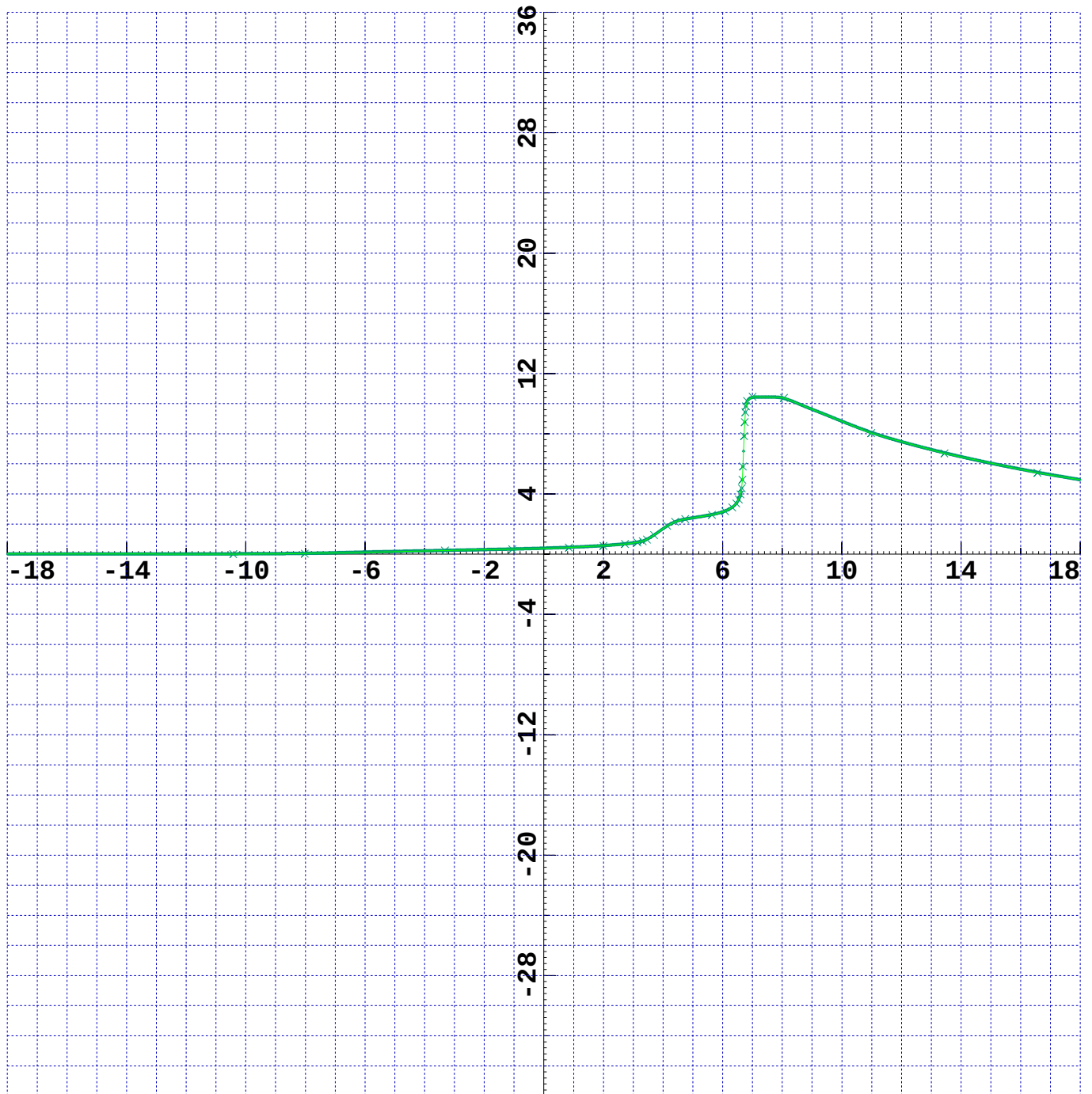


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZWr

Ident: kpfr_004





Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZRr

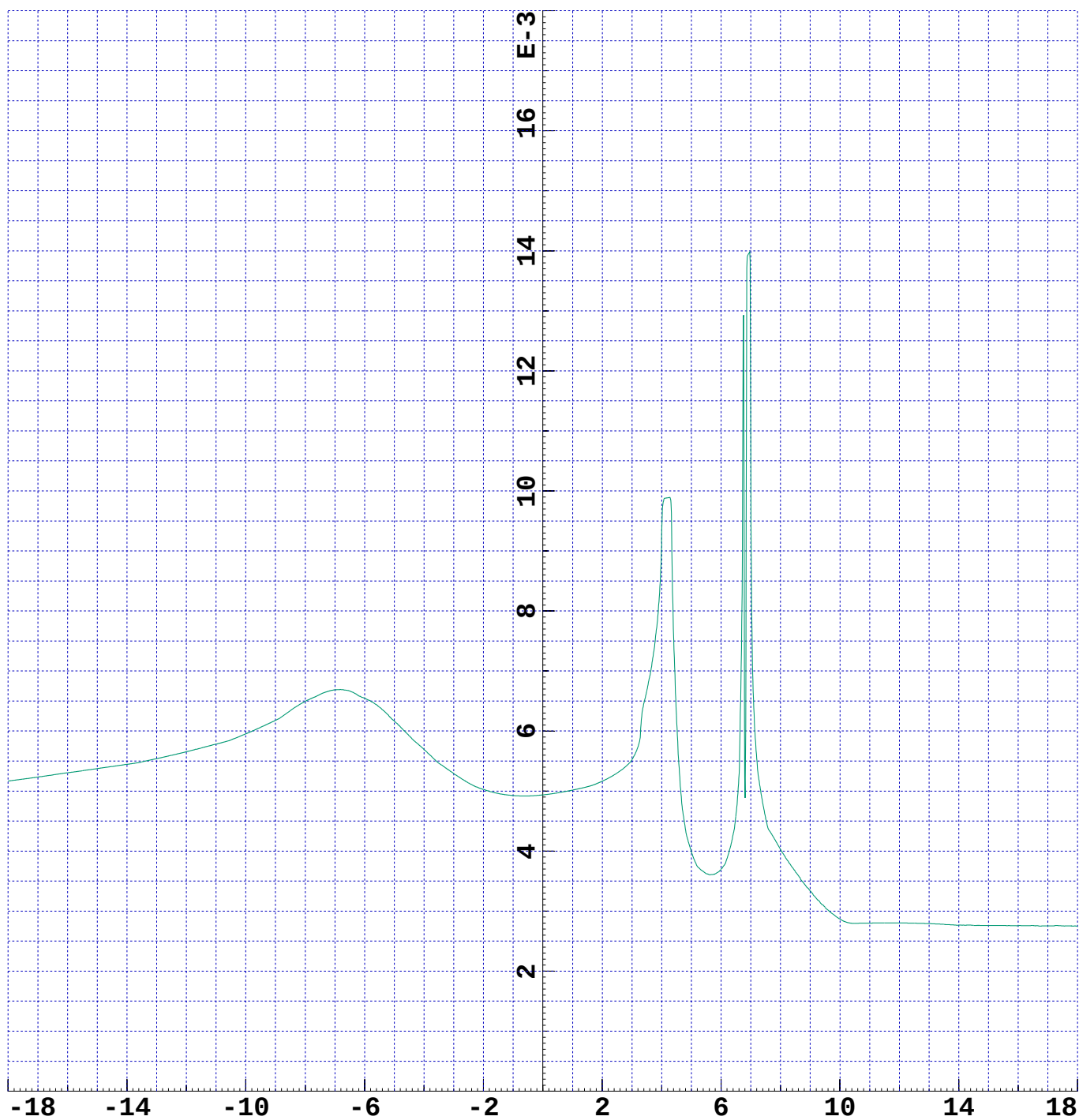
Ident: kpfr_004



Left wheel:S1002t32.5.wheel Right wheel:S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

ZR1

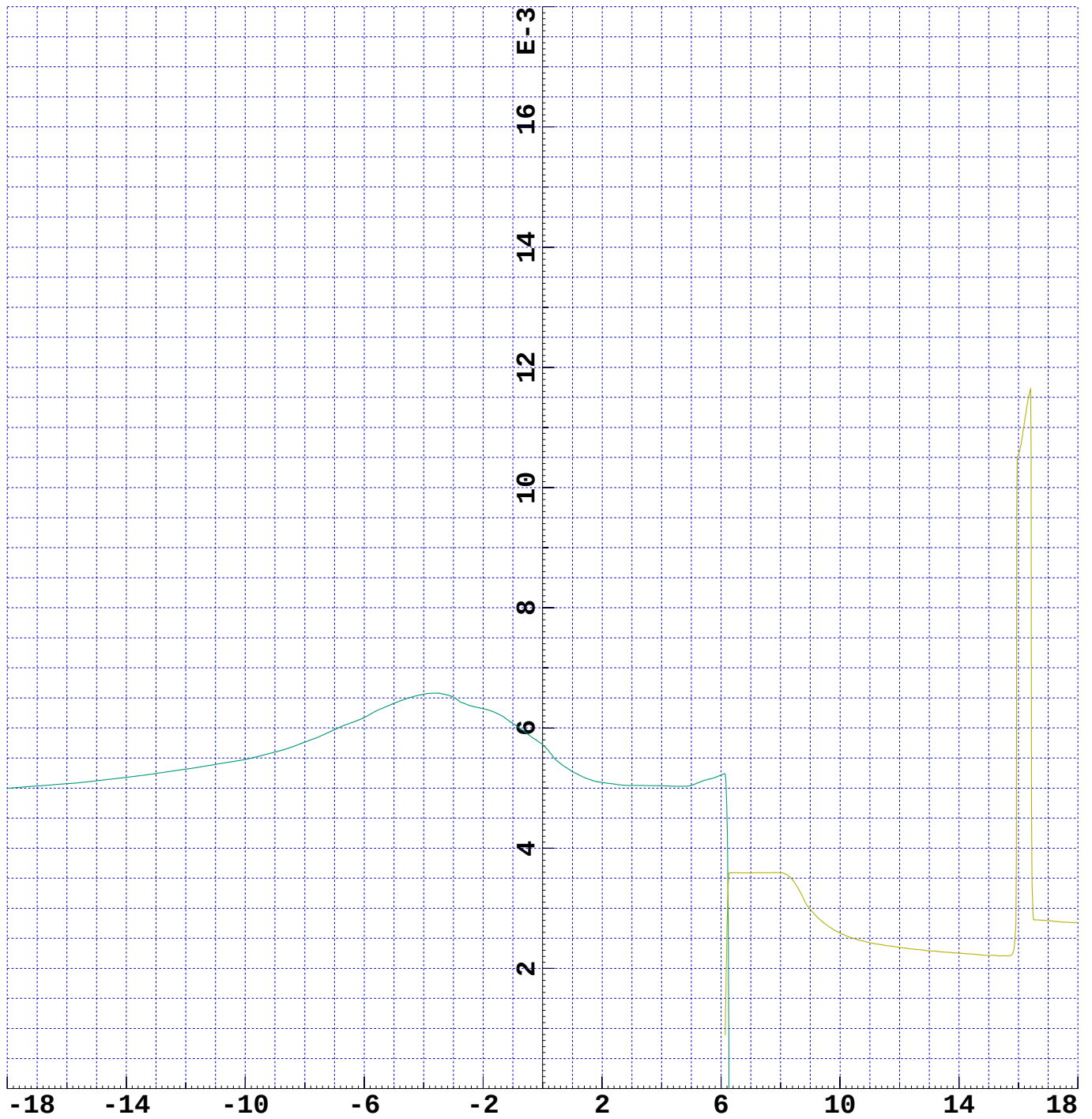
Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

C_r

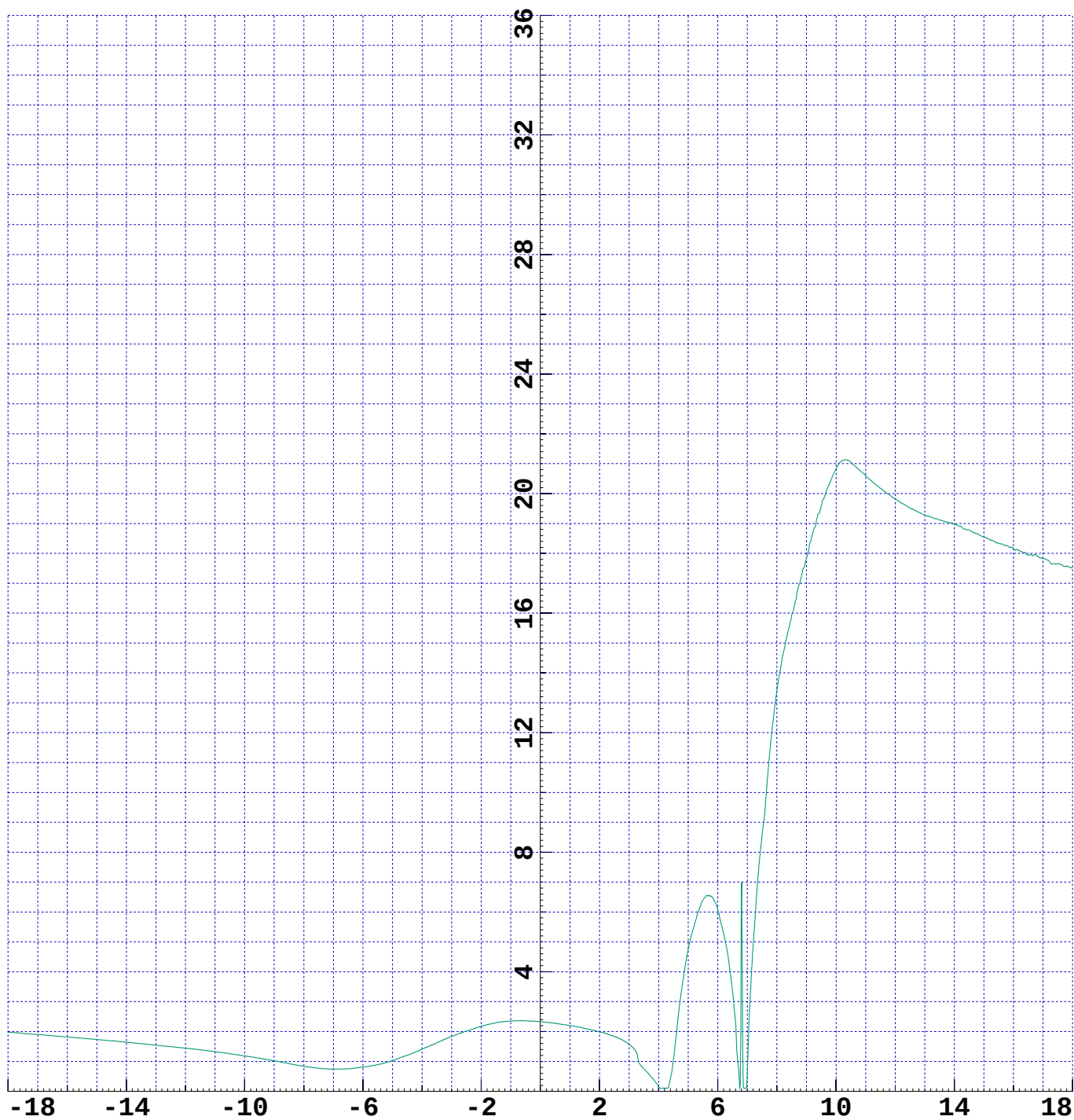
Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

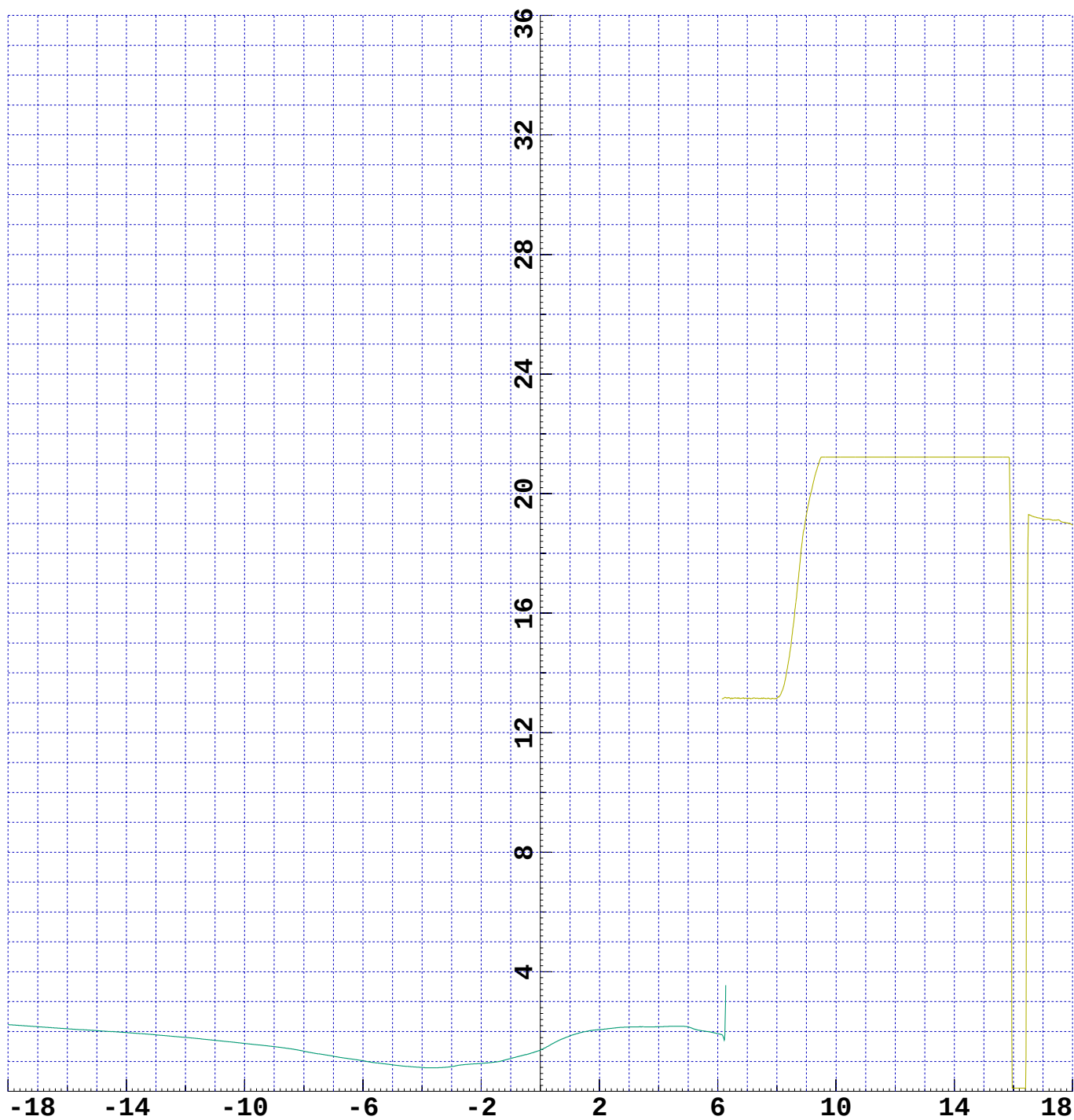
C_1

Ident: kpfr_004



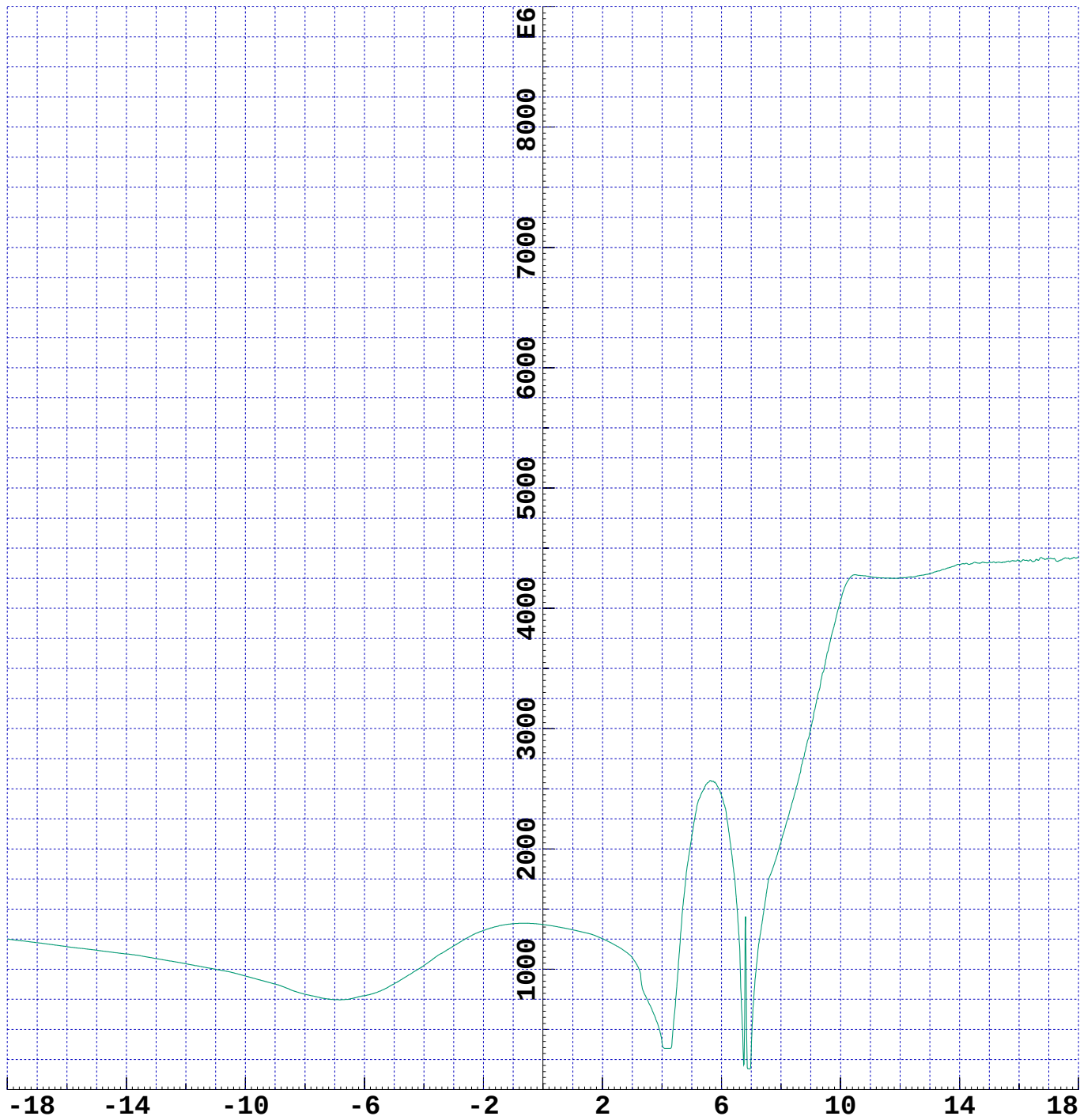
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_r
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



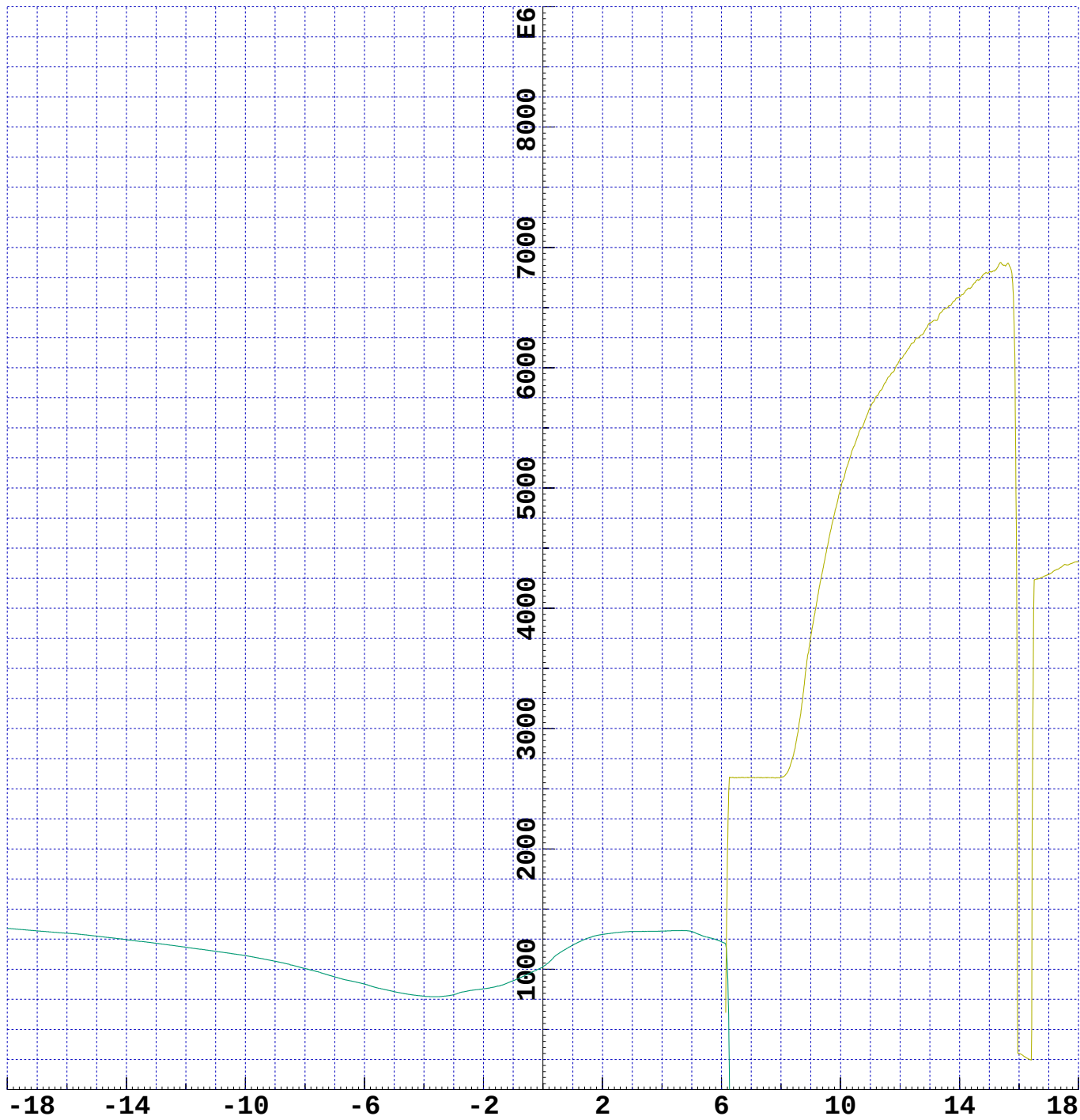
Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel A/B_1
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMAR**
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004



Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **SIGMA1**
Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004

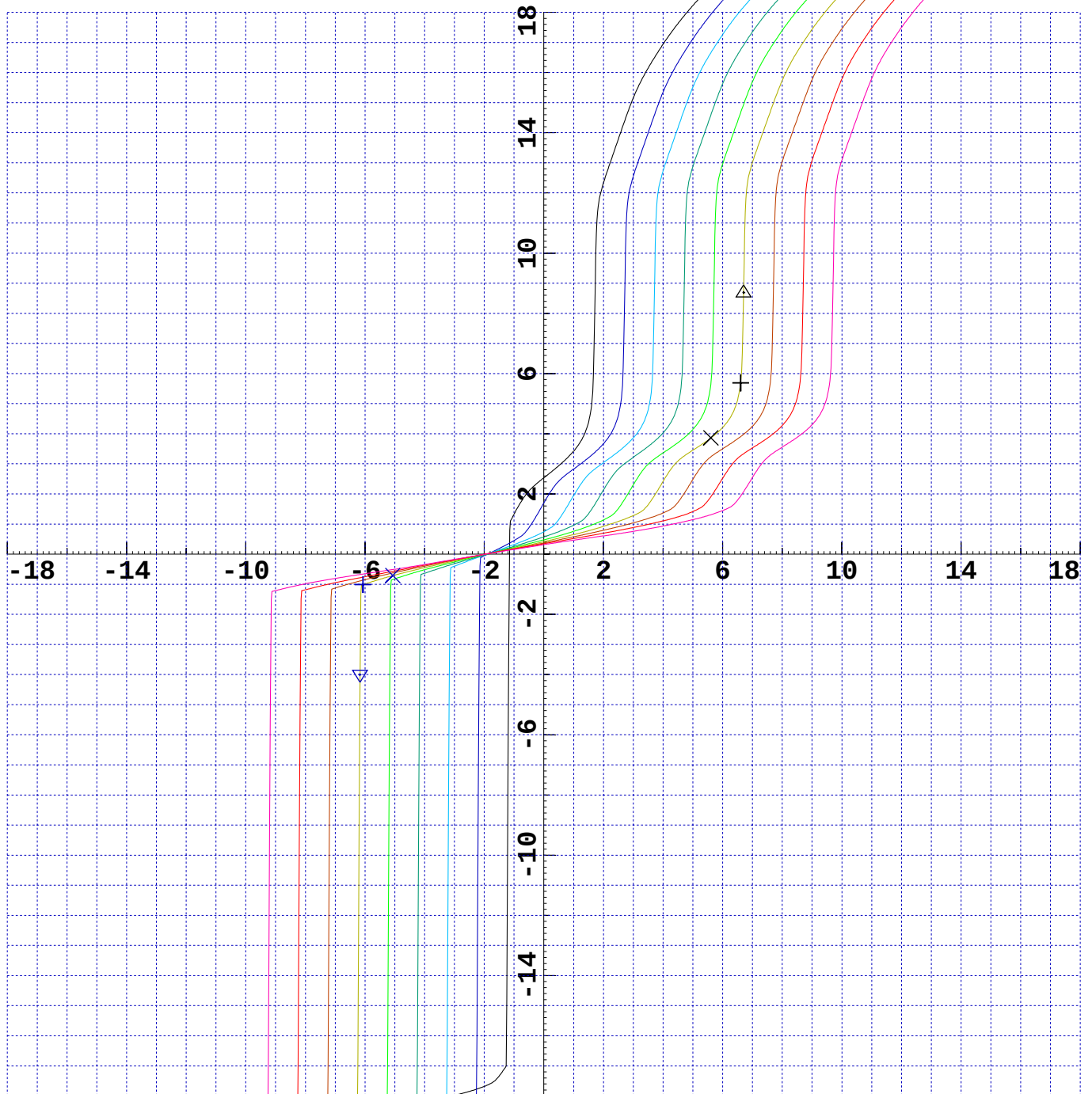
Gauge= 1425 —
 1427 —
 1429 —
 1431 —
 1433 —
 1435 —
 1437 —
 1439 —
 1441 —

Radial Steering Index

× = $\Delta r_E = 3.86$ left curve
 × = $\Delta r_E = 0.71$ right curve
 + = $A0r = 6.60$ 5.69
 + = $A0l = -6.07$ -1.01

possibility of
rolling without
slip

discontinuity
point



△ = 0.1mm right of +discontinuity
 ▽ = 0.1mm left of -discontinuity

Left wheel: S1002t32.5.wheel
 Left rail: r_prof/SEC004_l.short.rail
 wprof lat shift= 0

Right wheel: S1002t32.5.wheel

Right rail: r_prof/SEC004_r.short.rail

Gauge= 1425-1441

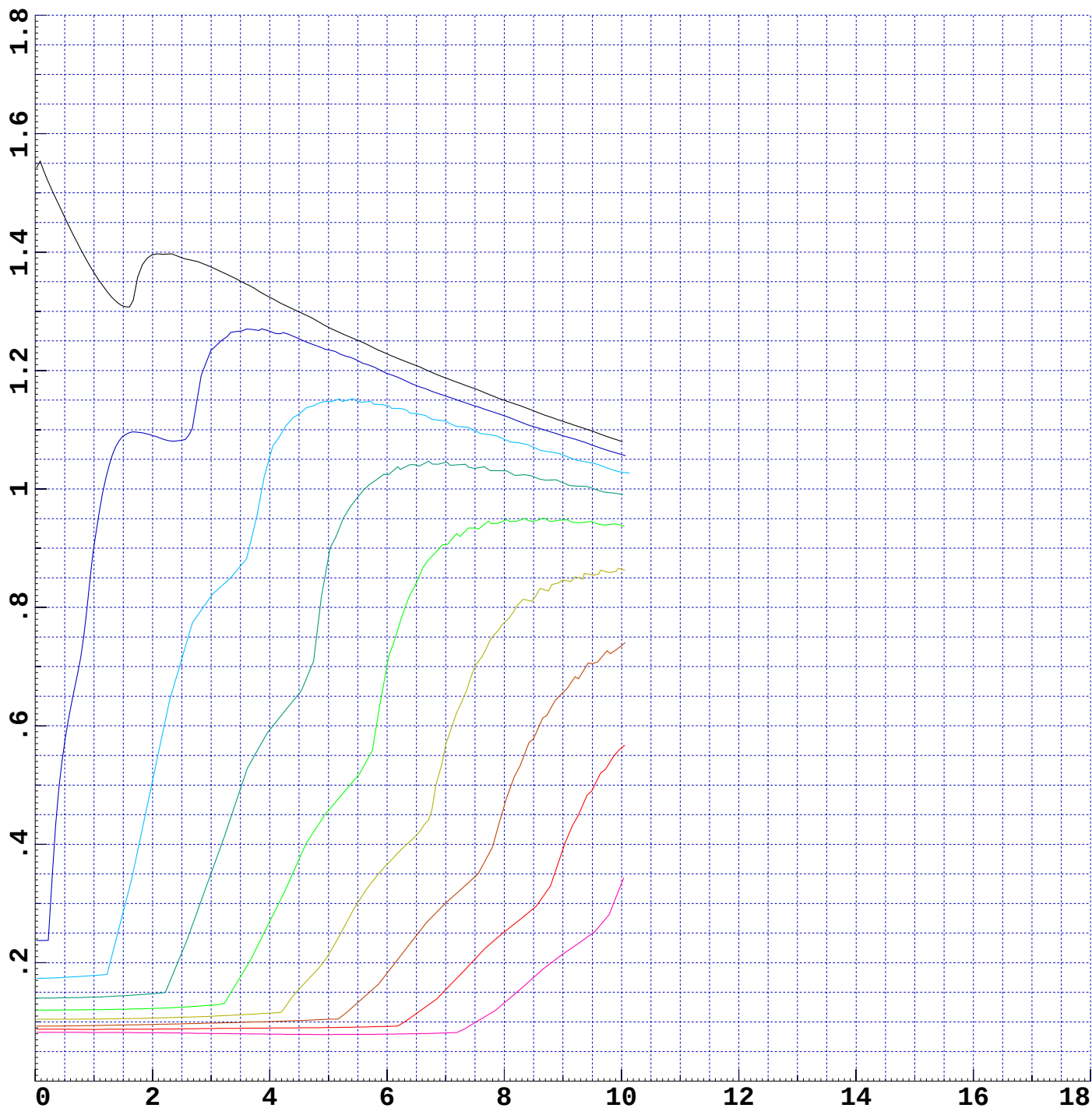
rr-rl

Ident: kpfr_004

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	1.549	1.459	1.396	1.375	1.324	1.228
	1427	.238	.570	1.090	1.234	1.266	1.195
	1429	.174	.175	.507	.819	1.055	1.141
	1431	.140	.141	.148	.351	.593	1.024
	1433	.120	.120	.123	.128	.270	.702
	1435	.105	.105	.107	.110	.115	.366
	1437	.093	.093	.096	.098	.101	.183
	1439	.088	.088	.088	.089	.090	.093
	1441	.083	.083	.082	.081	.080	.079



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

Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail

wprof_lat_shift= 0 Gauge= 1425-1441

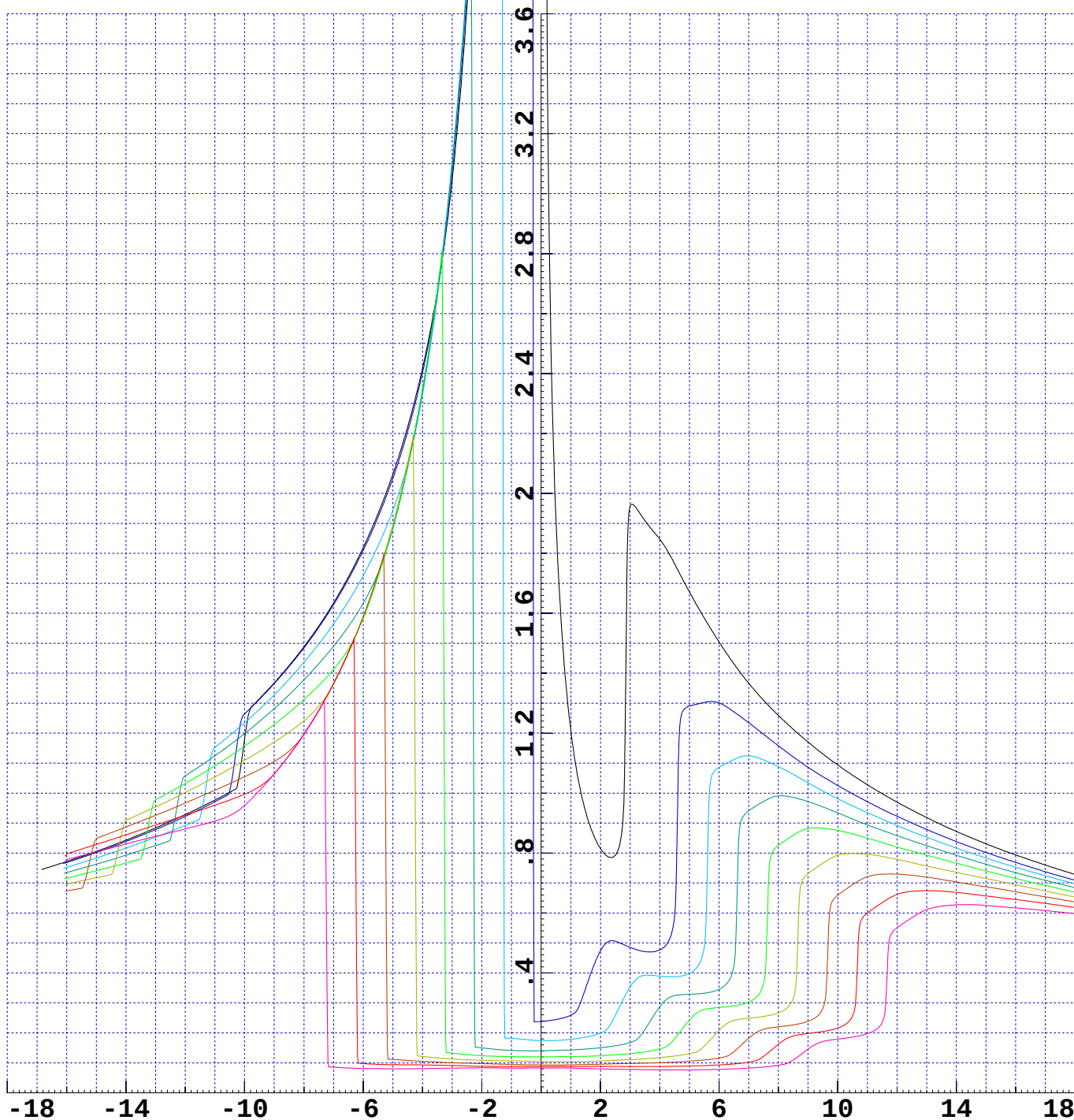
UIC519

Ident: kpfr_004

GENSYS-KPF.1308

Delta_Y=

		.1	.5	2	3	4	6
Gauge=	1425	6.204	1.905	.814	1.958	1.847	1.505
	1427	.239	.245	.473	.485	.477	1.301
	1429	.174	.175	.199	.353	.389	1.086
	1431	.140	.141	.151	.168	.287	.345
	1433	.120	.120	.124	.131	.147	.285
	1435	.104	.104	.106	.110	.118	.209
	1437	.093	.093	.095	.098	.101	.116
	1439	.088	.088	.088	.088	.088	.093
	1441	.083	.083	.080	.078	.077	.078

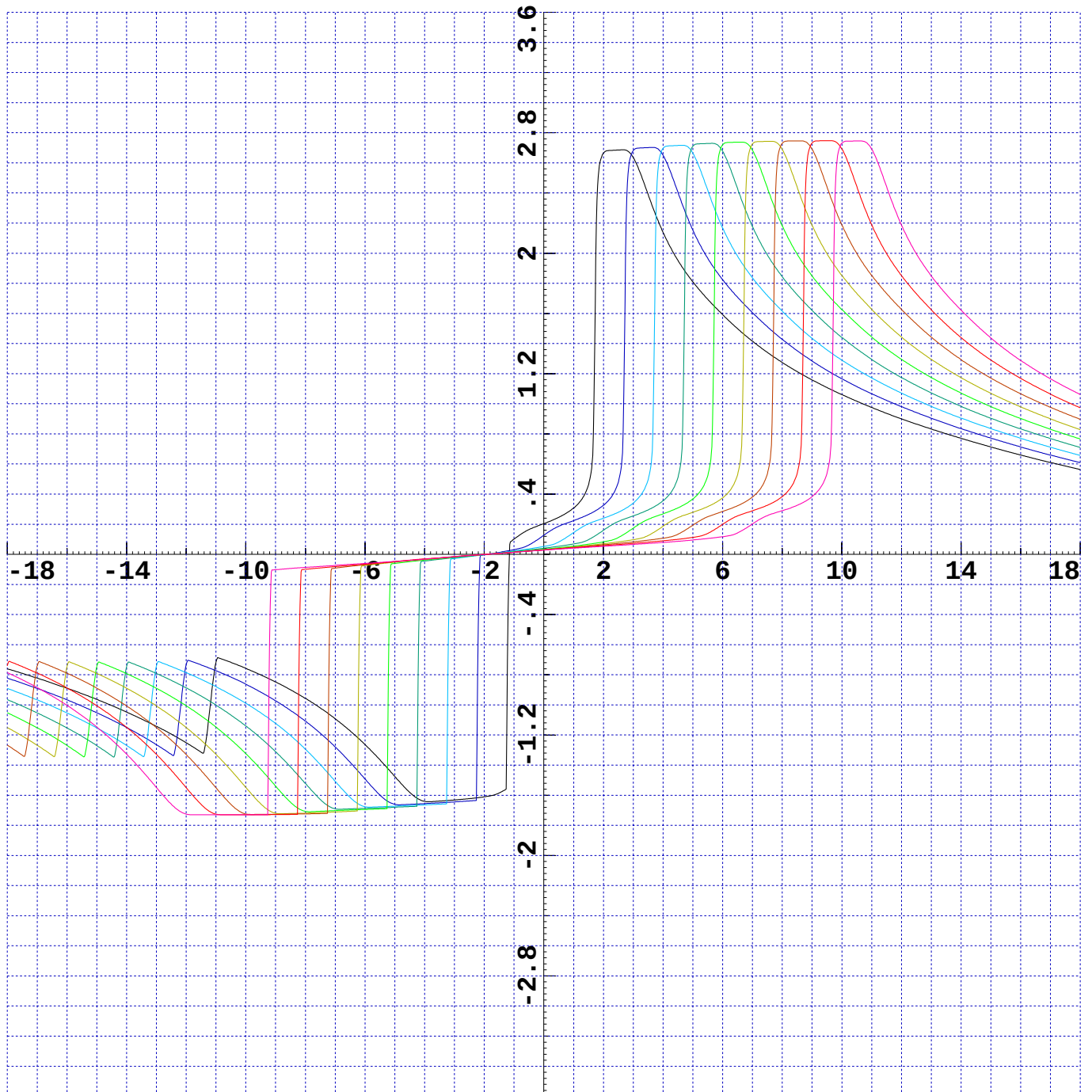


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel **lambda**
 Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
 wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004

GENSYS-KPF.1308

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

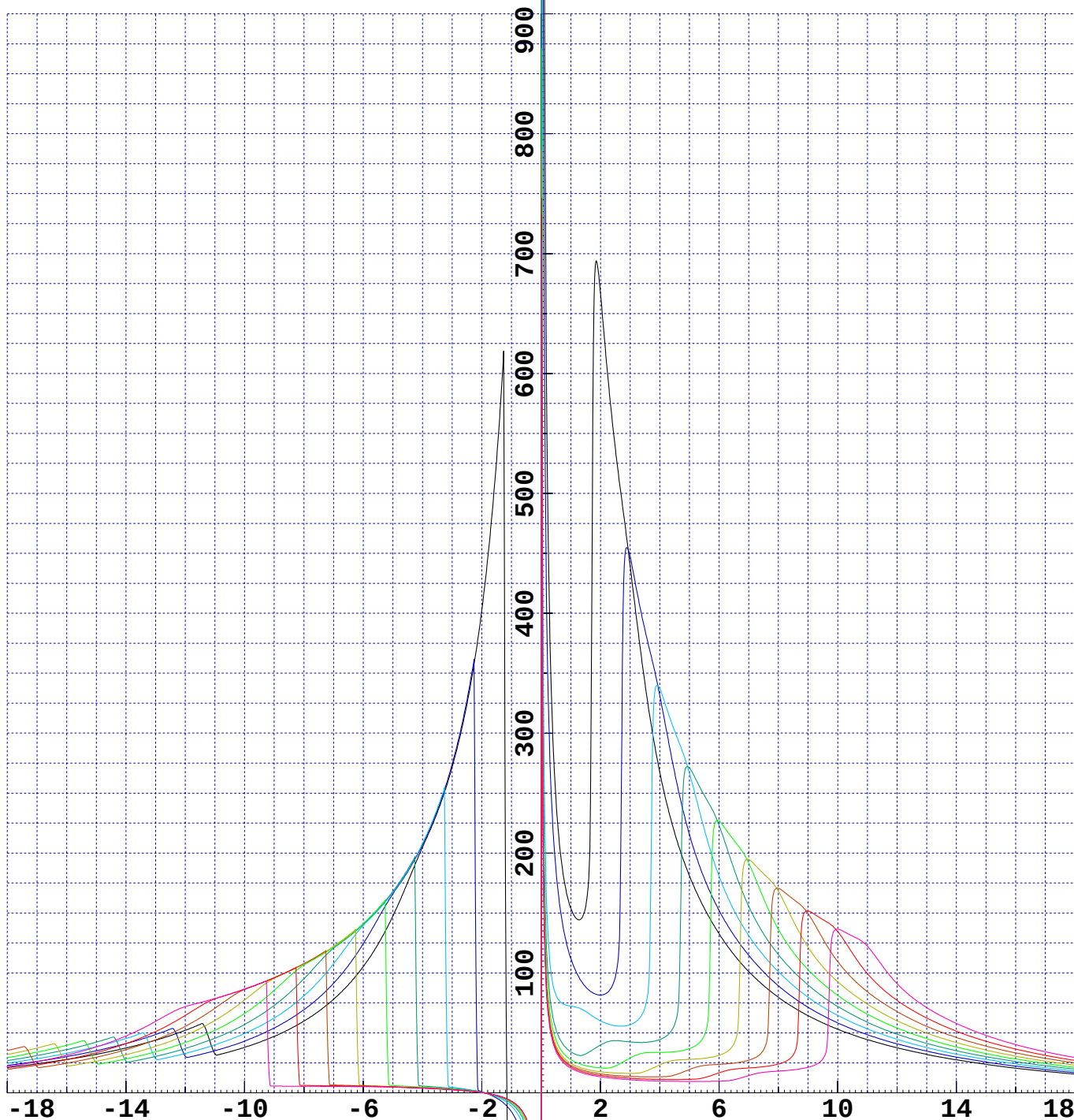


Left wheel: S1002t32.5.wheel Right wheel: S1002t32.5.wheel tan_Ga
 Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail
 Wprof_lat_shift= 0 Gauge= 1425-1441

Ident: kpfr_004

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	1055.43	245.43	666.47	439.22	267.29	132.64
1427	—	701.53	186.51	81.50	447.01	331.28	152.03
1429	—	279.86	81.74	60.08	56.82	337.10	180.59
1431	—	213.94	53.09	39.91	42.50	44.48	223.11
1433	—	181.92	44.38	20.77	29.08	33.64	226.73
1435	—	164.15	39.87	17.55	16.20	23.34	31.28
1437	—	155.65	37.62	15.83	13.73	13.38	23.72
1439	—	152.47	36.42	14.54	12.19	11.22	16.61
1441	—	147.67	34.78	13.38	10.92	9.84	9.75



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

Left rail: r_prof/SEC004_l.short.rail Right rail: r_prof/SEC004_r.short.rail

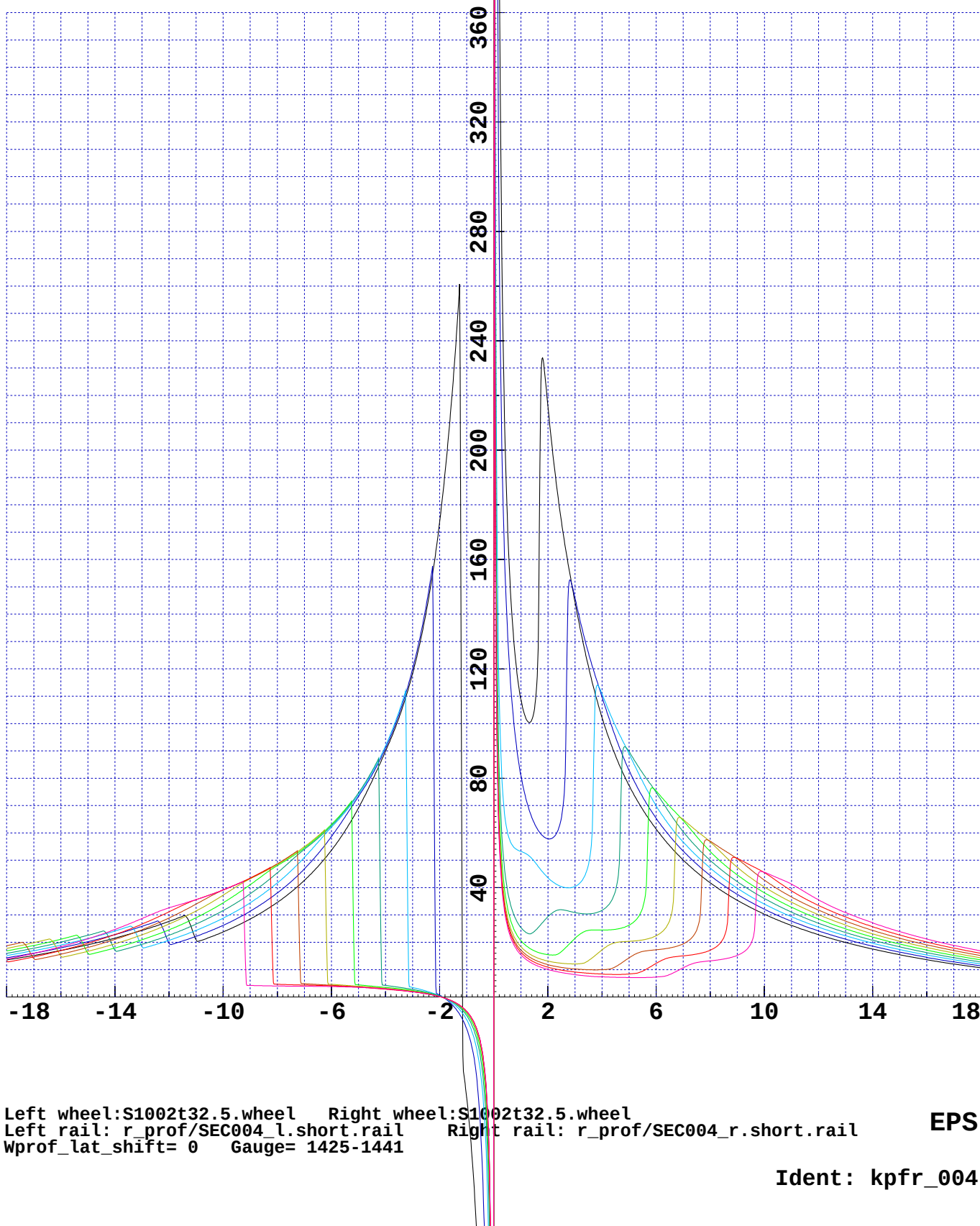
wprof_lat_shift= 0 Gauge= 1425-1441

KAPPA

Ident: kpfr_004

GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge= 1425	—	760.48	175.82	215.84	144.38	102.16	61.39
1427	—	514.13	135.74	57.82	145.92	109.68	65.35
1429	—	207.92	60.60	43.57	40.41	110.81	69.91
1431	—	159.38	39.53	29.41	30.88	31.70	74.81
1433	—	135.75	33.11	15.47	21.46	24.48	75.37
1435	—	122.64	29.78	13.10	12.08	17.24	22.35
1437	—	116.40	28.13	11.83	10.25	9.98	17.29
1439	—	114.11	27.26	10.88	9.11	8.38	12.28
1441	—	110.58	26.04	10.02	8.17	7.36	7.27



GENSYS-KPF.1308

Delta_Y=		.1	.5	2	3	4	6
Gauge=	1425	4.44	1.11	.78	1.16	1.30	1.30
	1427	3.08	.80	.40	.55	.89	1.11
	1429	2.48	.60	.30	.29	.43	.88
	1431	2.17	.52	.23	.22	.23	.61
	1433	1.92	.46	.19	.17	.18	.30
	1435	1.70	.41	.17	.14	.14	.16
	1437	1.50	.36	.14	.12	.11	.12
	1439	1.30	.31	.12	.10	.10	.09
	1441	1.09	.26	.10	.09	.08	.07

