

# Eigene FCD mit Smartphones erzeugen

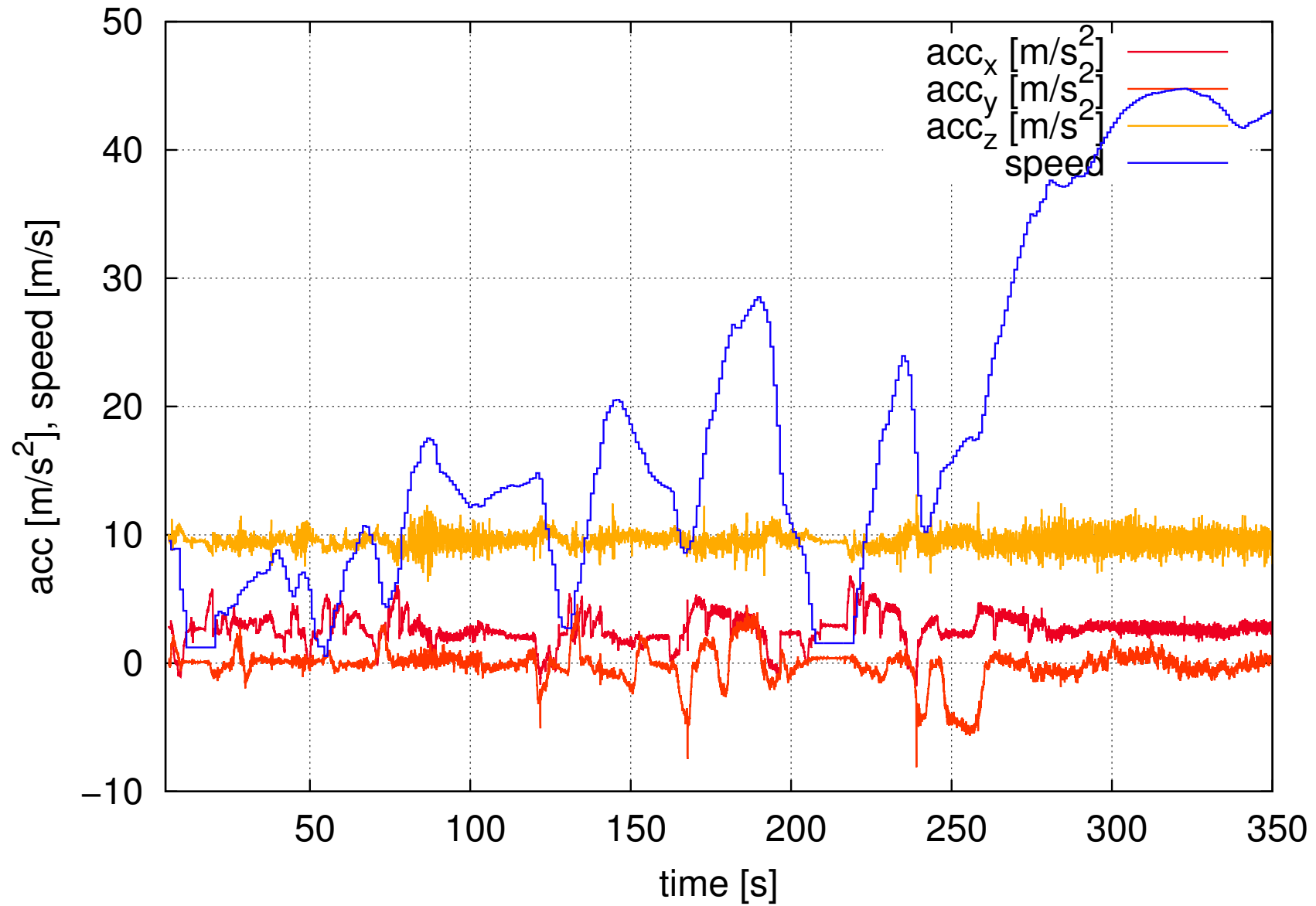
Es gibt etliche Apps, welche die vielen Smartphone-Sensoren auslesen, z.B. Phyphox .



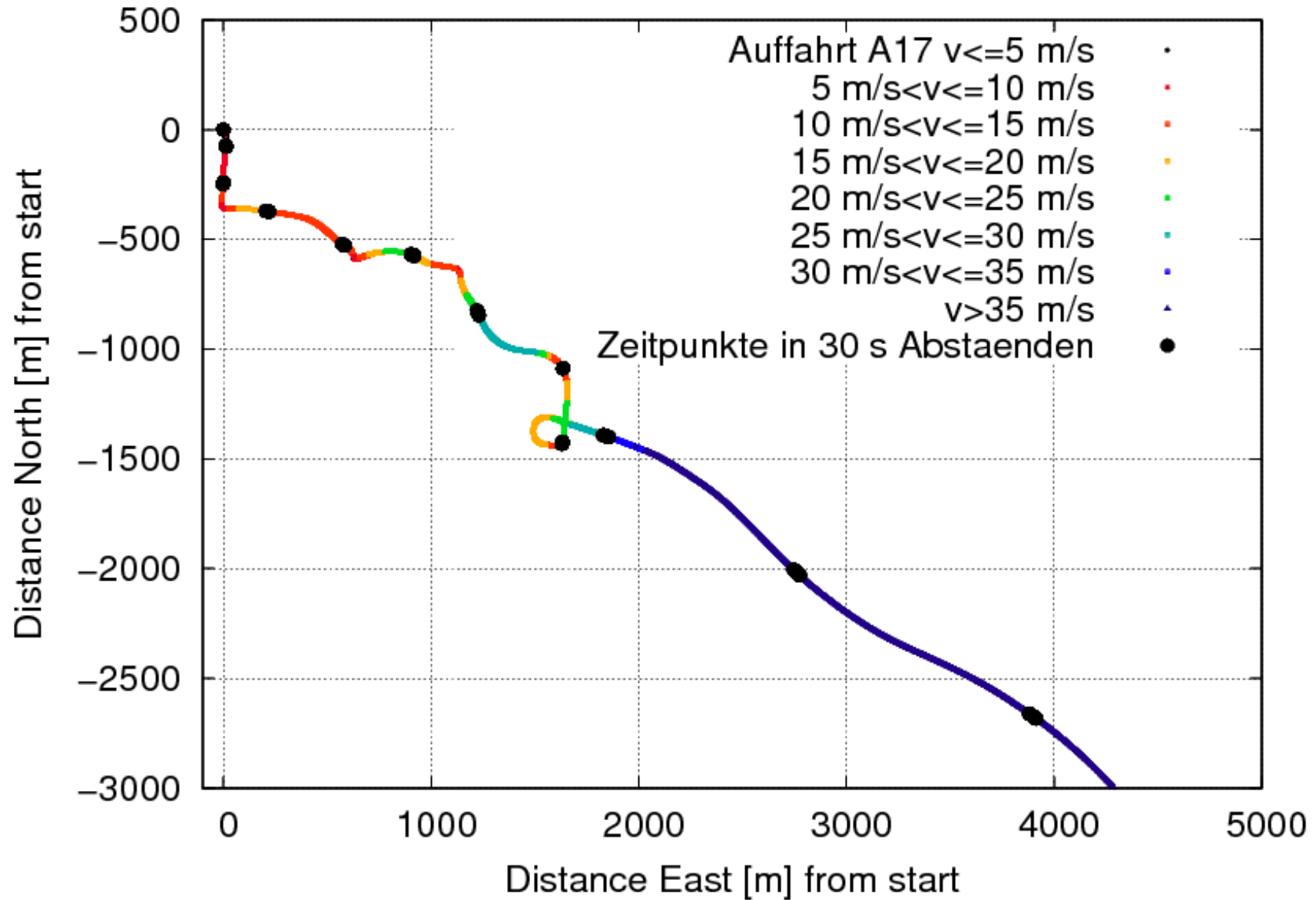
# Rohdaten

#time	gFx	gFy	gFz	Latitude	Longitude	Speed (m/s)
6.0290	0.2835	-0.0215	0.9534	51.01982536	13.70625587	9.52999973
6.0610	0.2801	-0.0126	0.9629	51.01982536	13.70625587	9.52999973
6.0920	0.2868	-0.0053	1.0020	51.01982536	13.70625587	9.52999973
6.1230	0.2737	0.0018	0.9734	51.01982536	13.70625587	9.52999973
6.1540	0.2822	0.0200	0.9615	51.01982536	13.70625587	9.52999973
6.1850	0.2822	0.0171	0.9389	51.01982536	13.70625587	9.52999973
6.2170	0.2869	0.0354	0.9383	51.01982536	13.70625587	9.52999973
6.2480	0.2846	0.0070	0.9433	51.01982536	13.70625587	9.52999973
6.2790	0.2833	0.0282	0.9333	51.01982536	13.70625587	9.52999973
6.3100	0.2784	-0.0077	0.9639	51.01982536	13.70625587	9.52999973
6.3410	0.2868	0.0001	0.9935	51.01982536	13.70625587	9.52999973

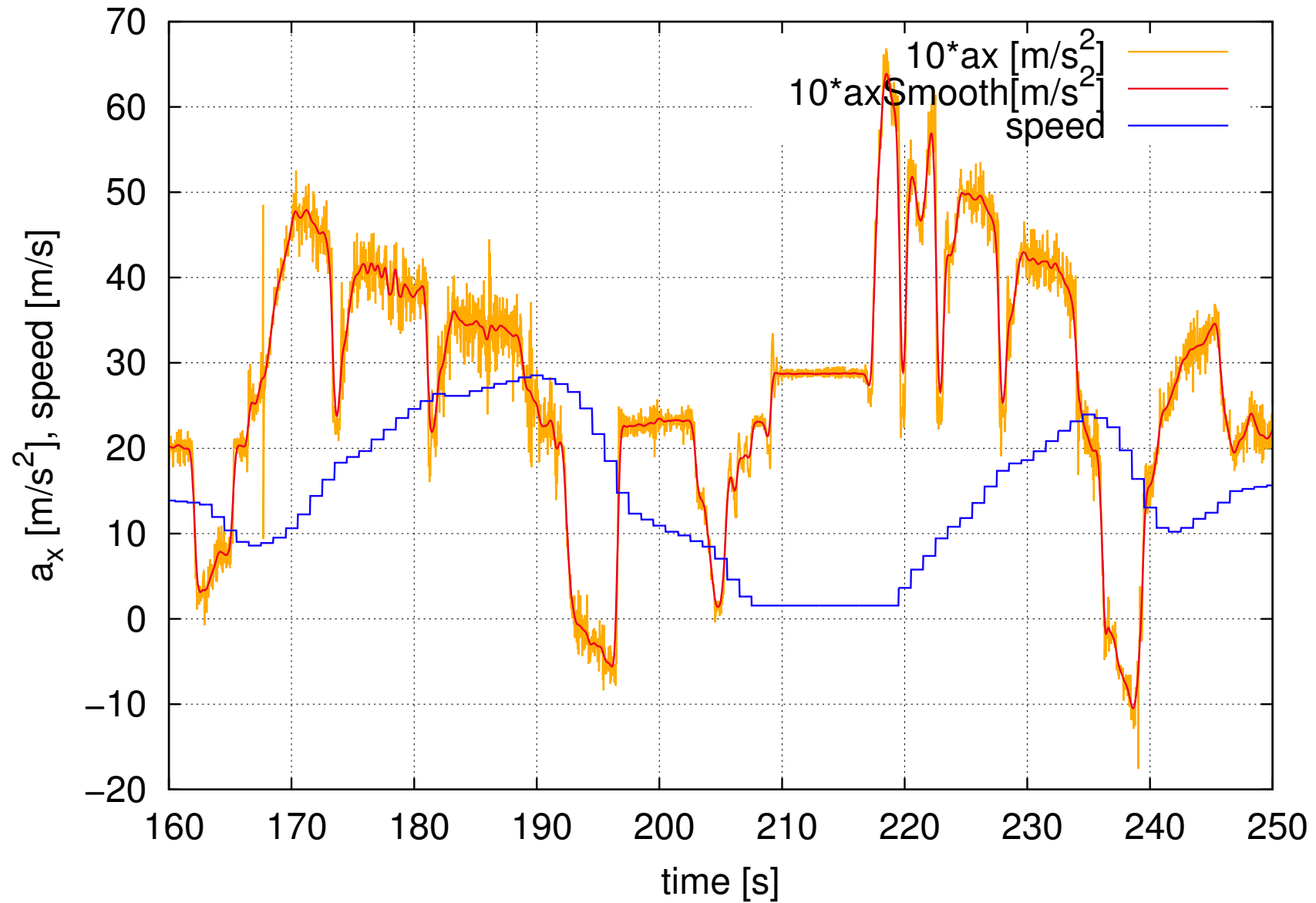
# Direkter Plot einiger Rohdaten



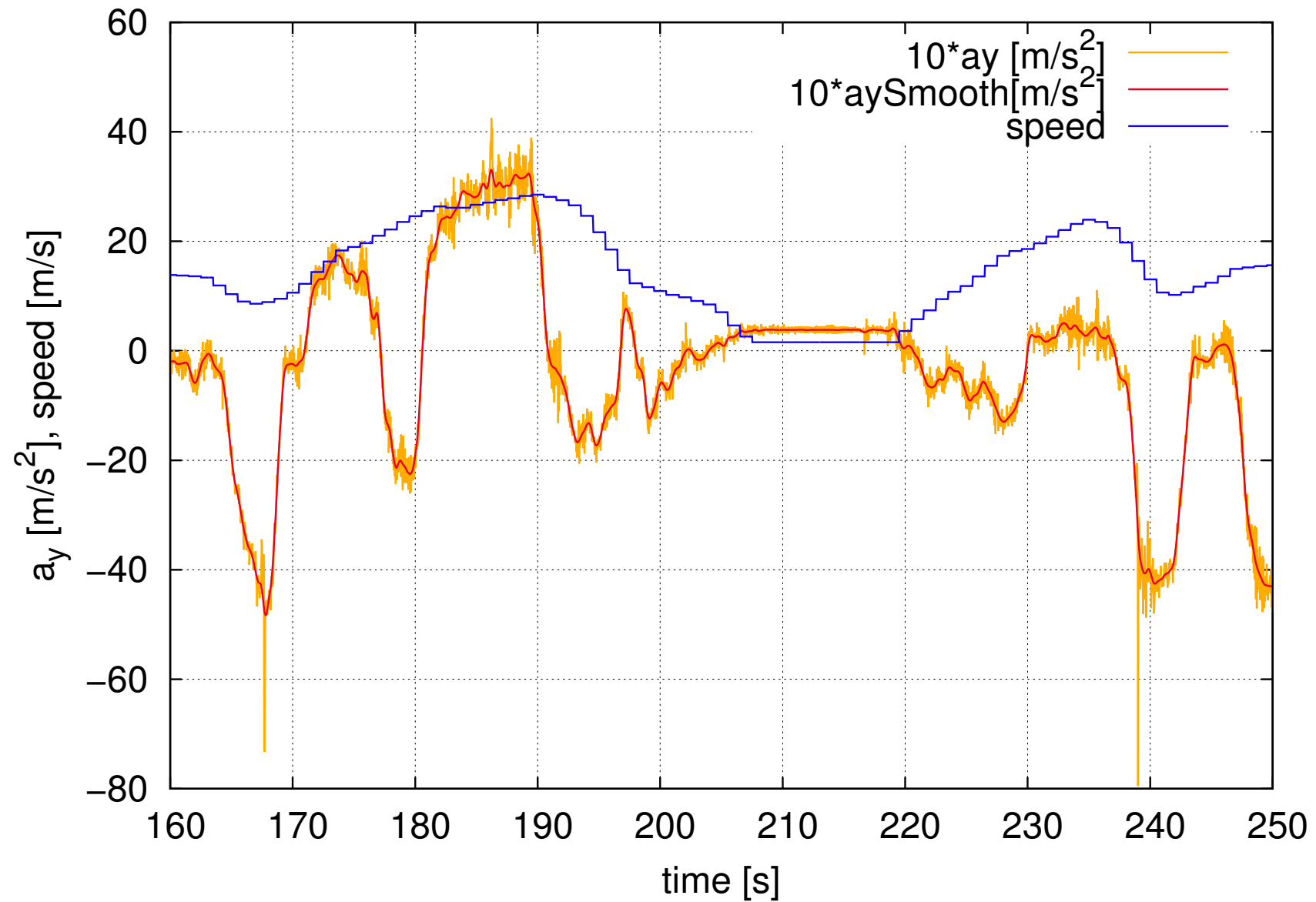
# Der Weg



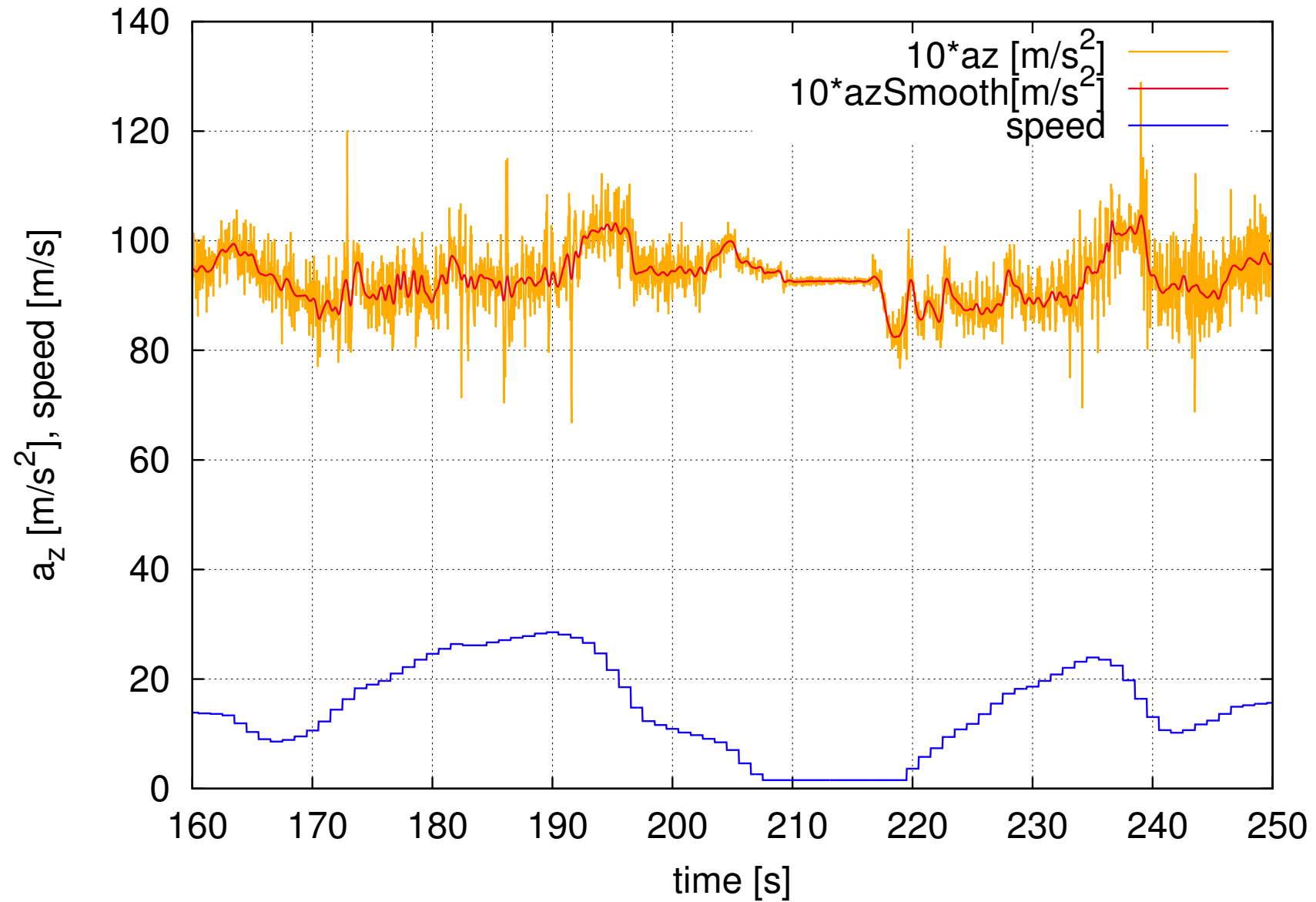
# Geglättete Beschleunigungen Smartphone x-Achse



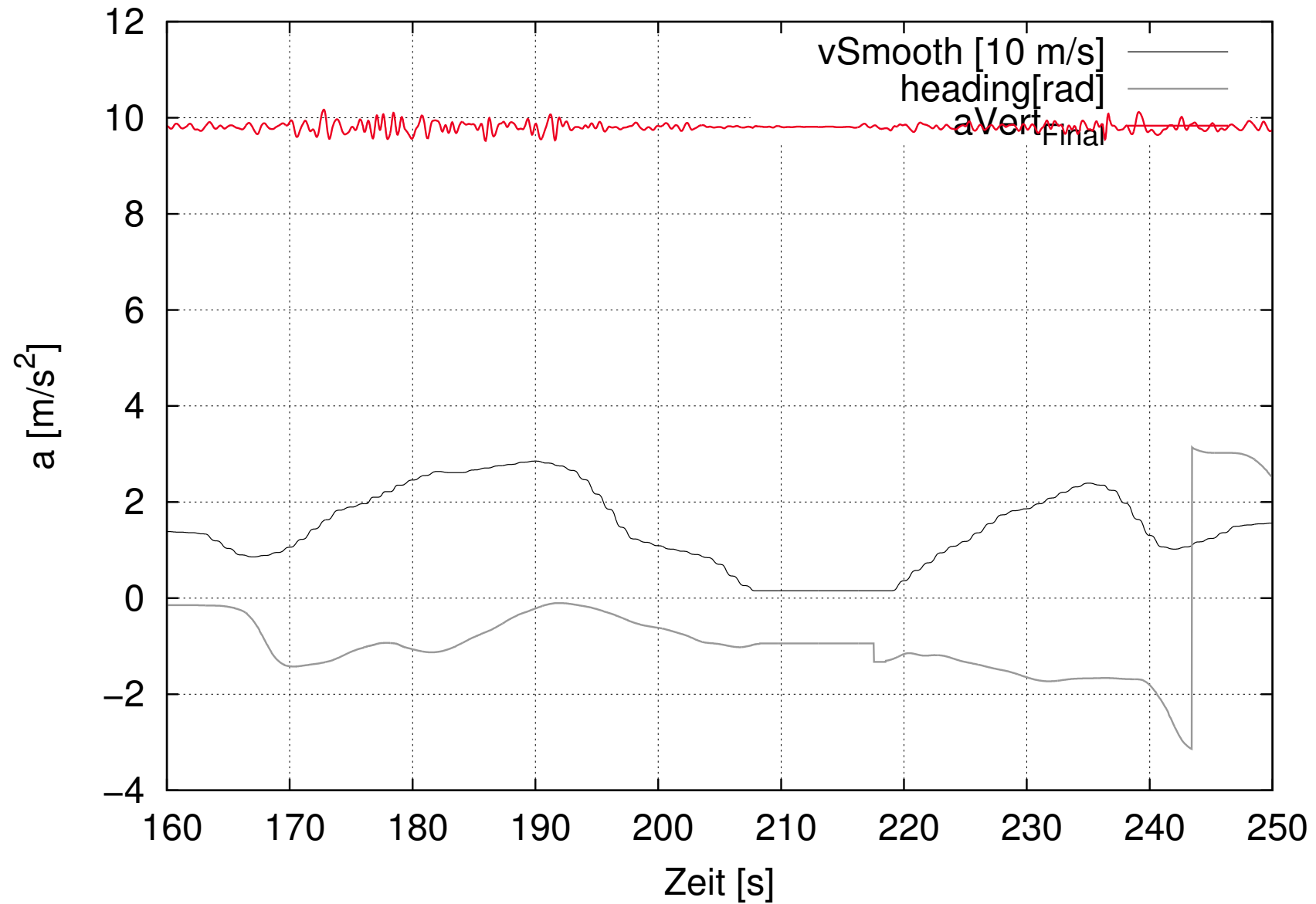
# Geglättete Beschleunigungen Smartphone y-Achse



# Geglättete Beschleunigungen Smartphone z-Achse

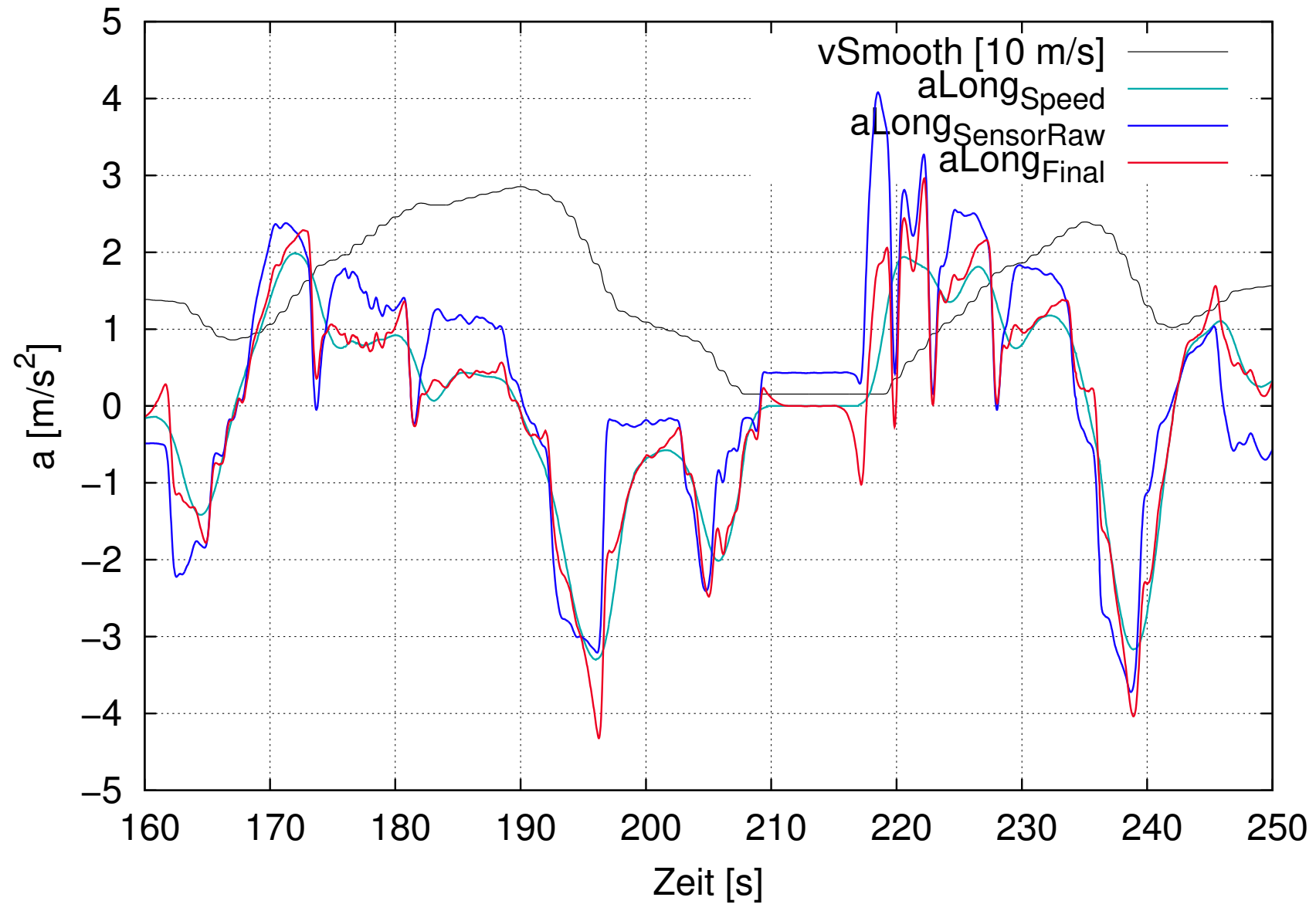


# Eliminierung der zu g parallelen Komponente





# Isolierung der zum Auto longitudinalen Komponente



# Isolierung der zum Auto lateralen Komponente

