$\tau = 2.0 \quad \delta = 3.5$ $\tau = 5.5 \quad \delta = 3.5$ $\tau = 9.0 \quad \delta = 3.5$
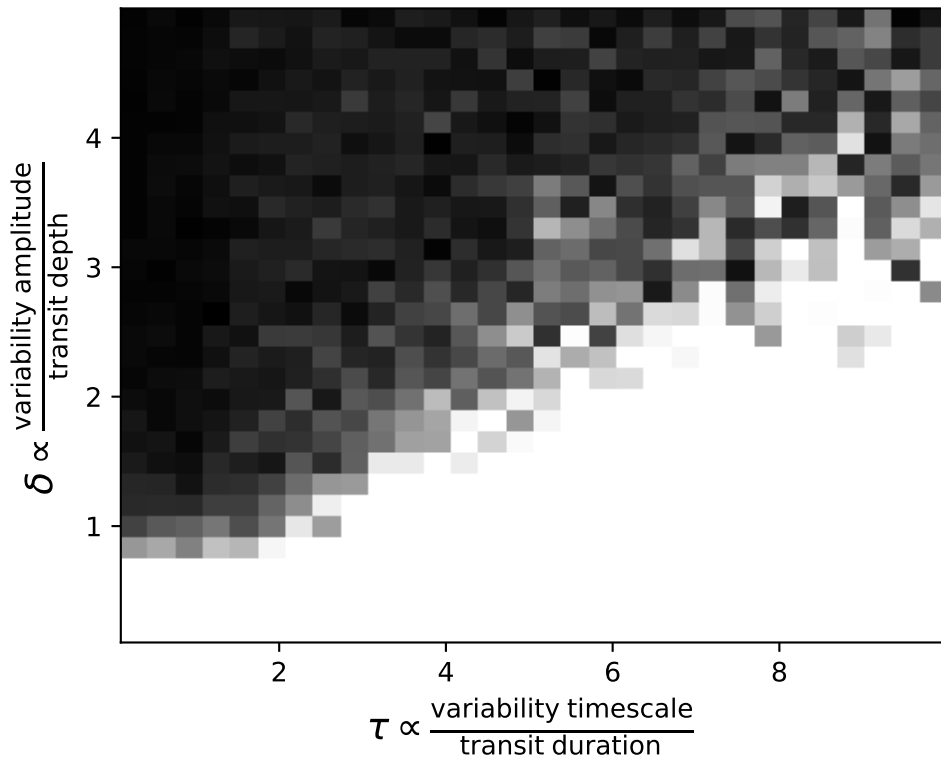
Detrending effect on SNR

original SNR: 34.64

SNR

0 > 5

$\tau = 9.0 \quad \delta = 2.5$

$\tau = 9.0 \quad \delta = 1.5$

$\tau = 9.0 \quad \delta = 0.5$

$\delta \propto \dfrac{\text{variability amplitude}}{\text{transit depth}}$

$\tau \propto \dfrac{\text{variability timescale}}{\text{transit duration}}$