TABLE LEG TESTING

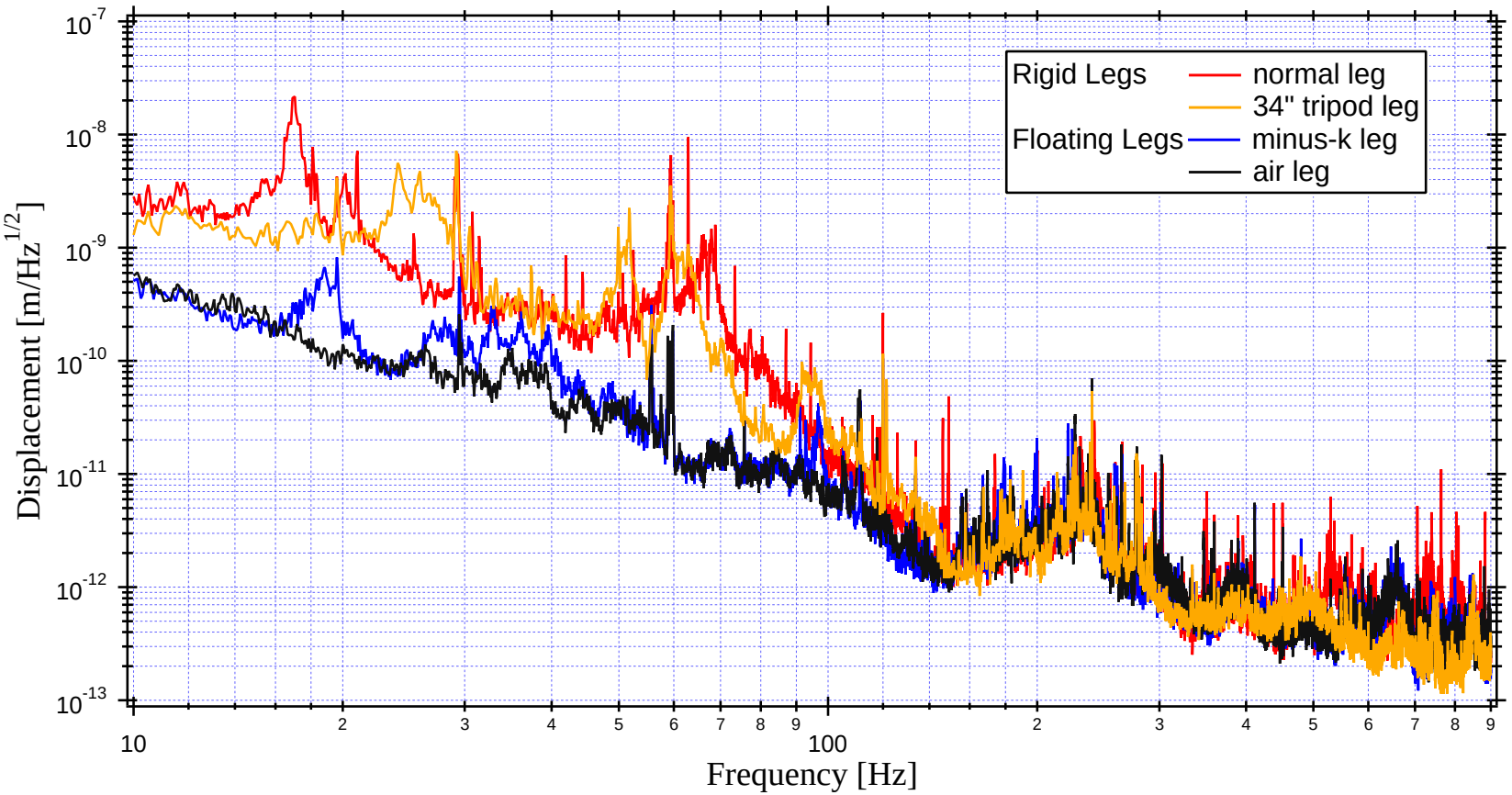
Compared 5 leg designs using the following figures of merit:

1) lower rms amplitude of table motion above 70 Hz (to reduce in-band modulation of clipping)
2) lower rms velocity (to reduce potential back-scattering noise - this is less important because we did not find back-scattering noise [next slide], and table motion amplitudes are less than 1/10 laser wavelength).

current **tall tripod** **small tripod (damped)** **pneumatic** **minus-k (spring)**

COMPARISON OF RIGID AND FLOATING TABLE LEGS ON ISCT3

Red: current leg; Orange: tall tripod; Blue: minus-k; Black: pneumatic



Sum in quadrature of 3 accelerometer axes, converted to displacement