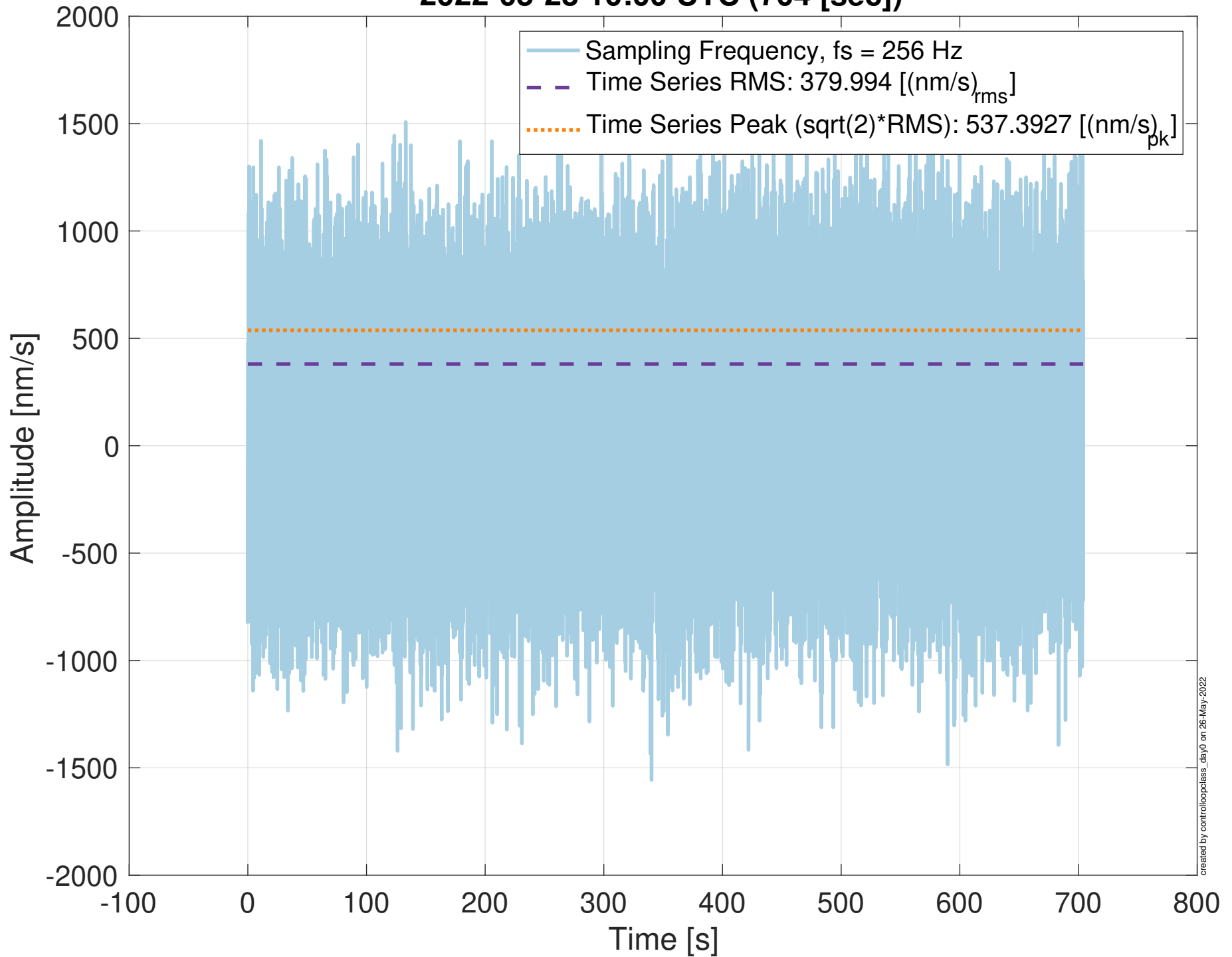
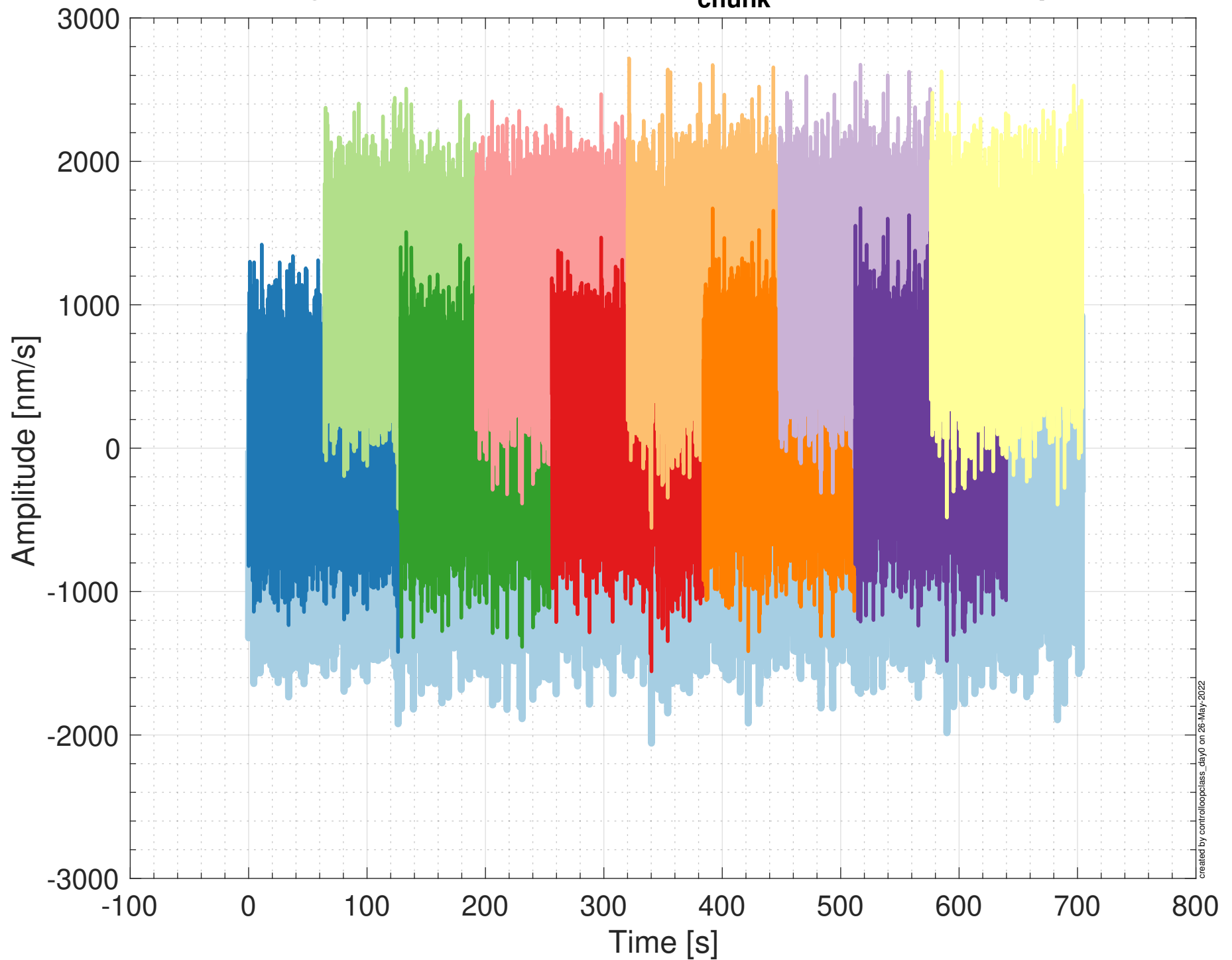


H1 ETMX Ground Motion, X

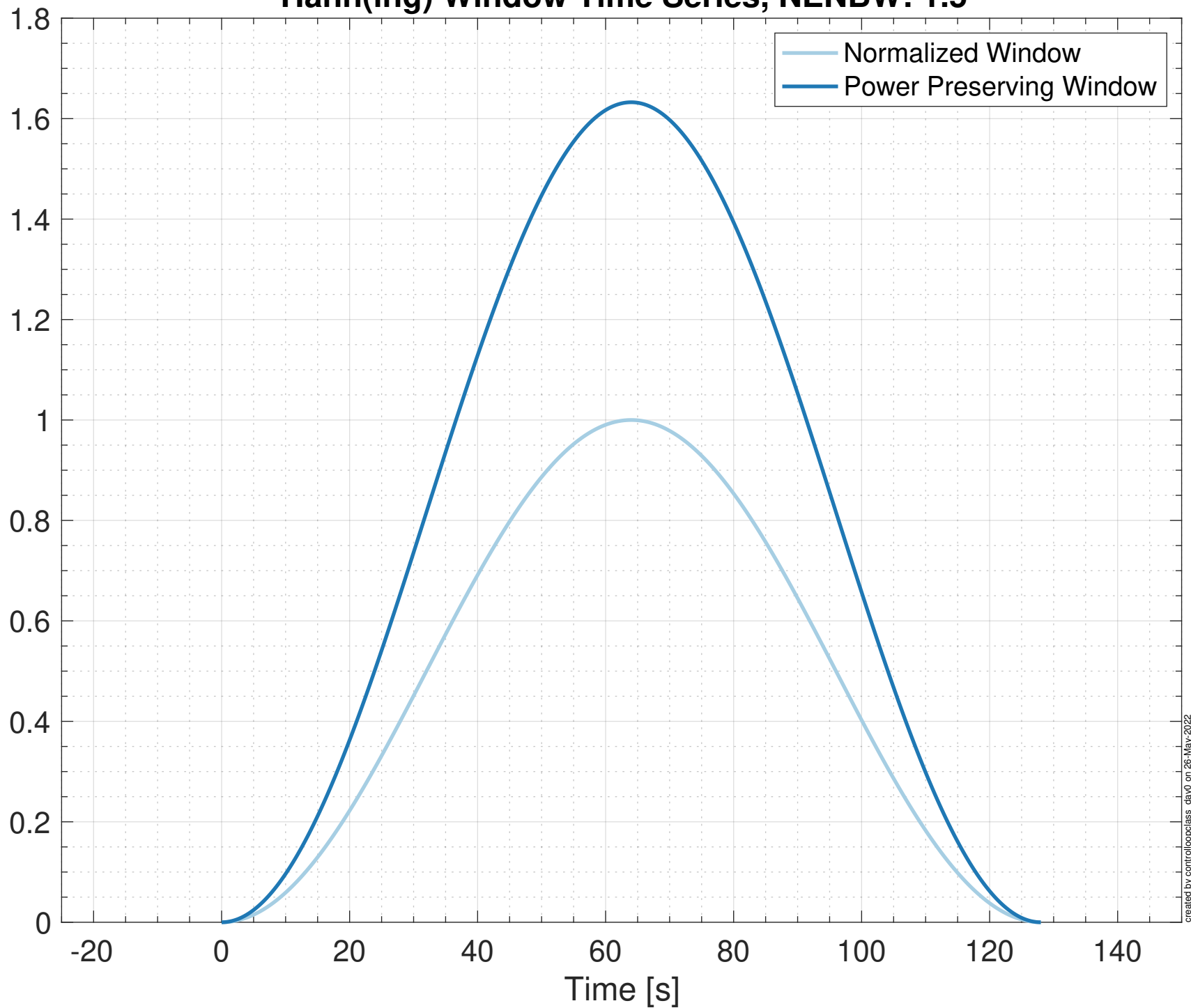
2022-05-23 10:00 UTC (704 [sec])



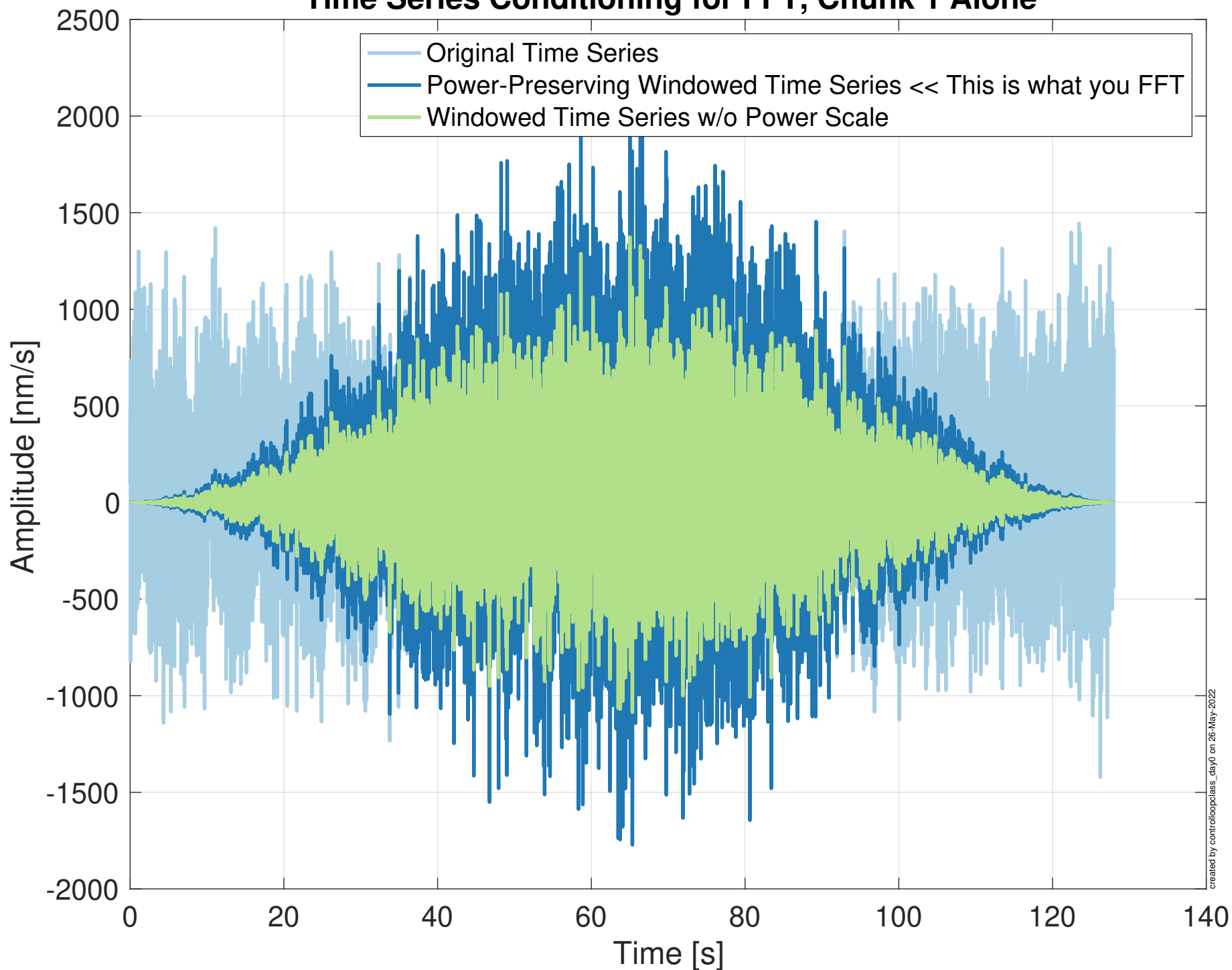
N Averages: 10, Chunk Duration, T_{chunk} : 128 [sec], Overlap: 50%



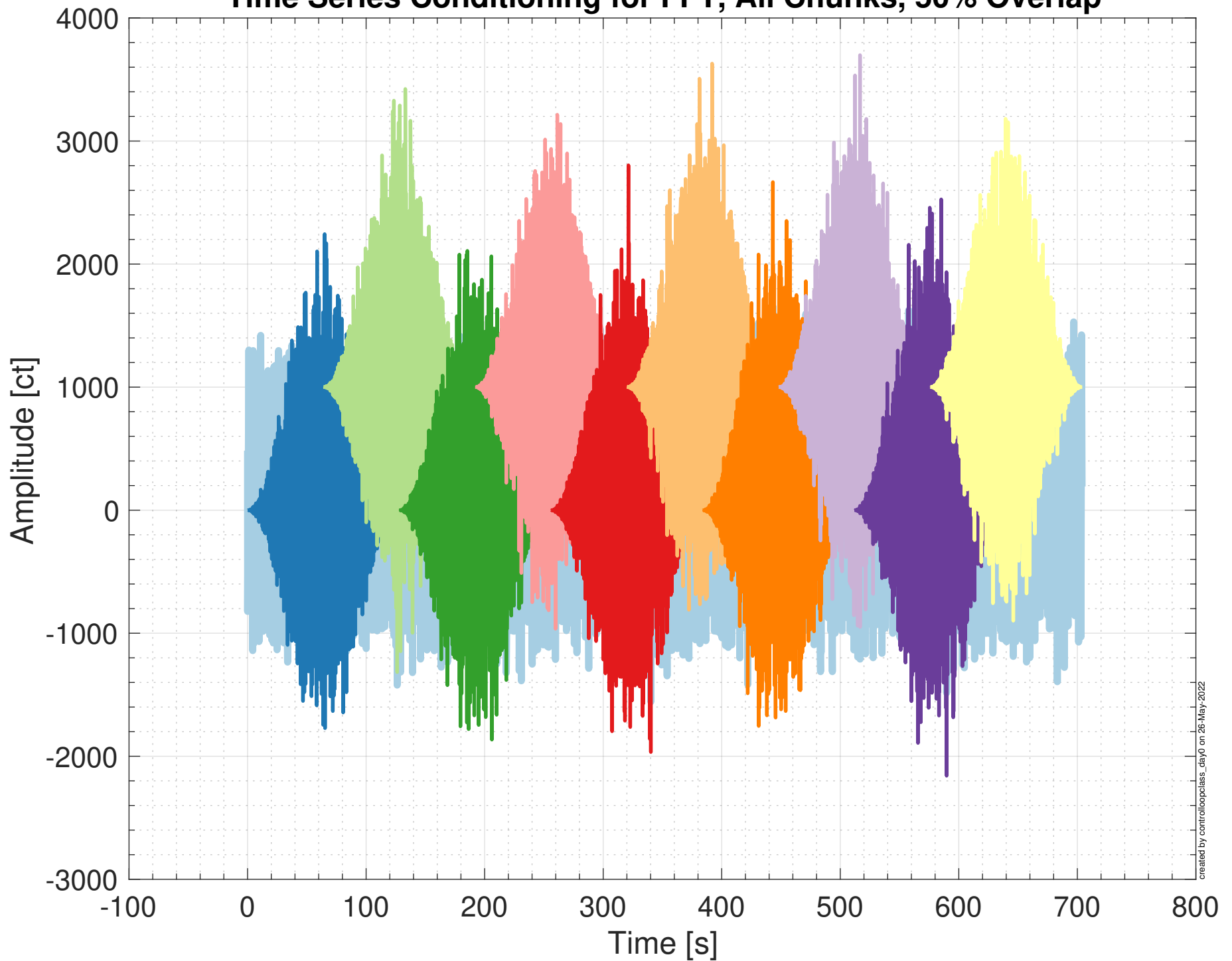
Hann(ing) Window Time Series, NENBW: 1.5



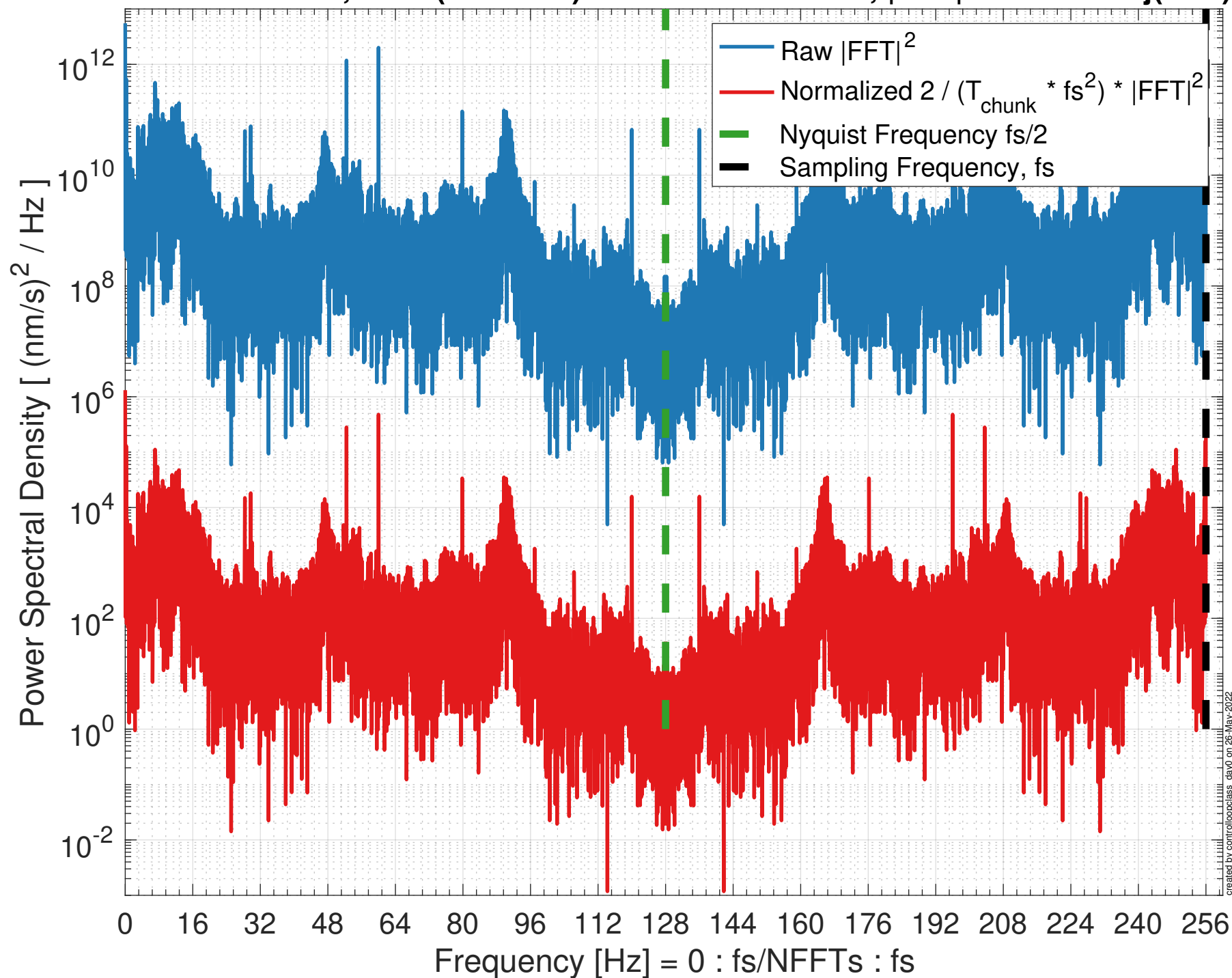
Time Series Conditioning for FFT, Chunk 1 Alone



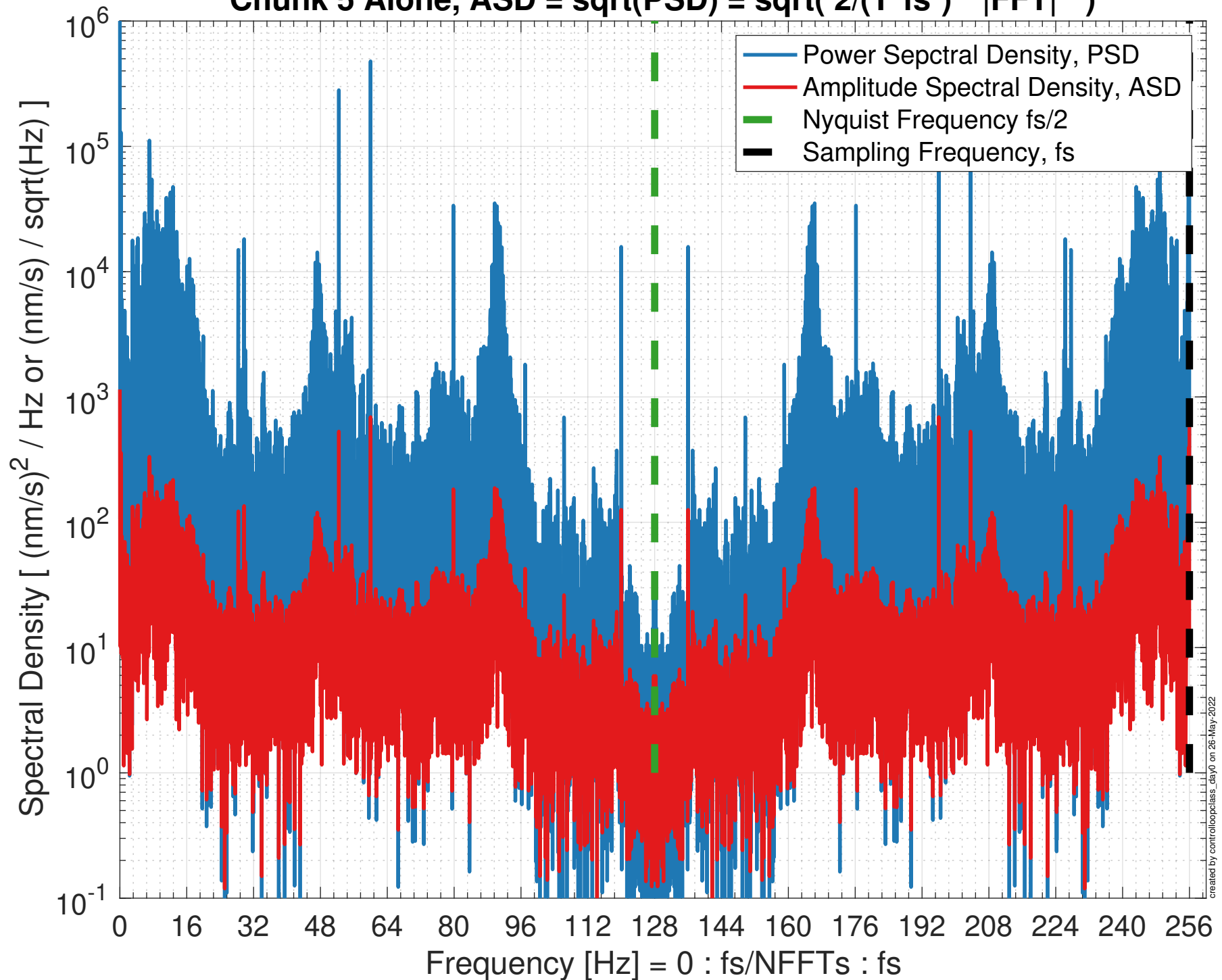
Time Series Conditioning for FFT, All Chunks, 50% Overlap



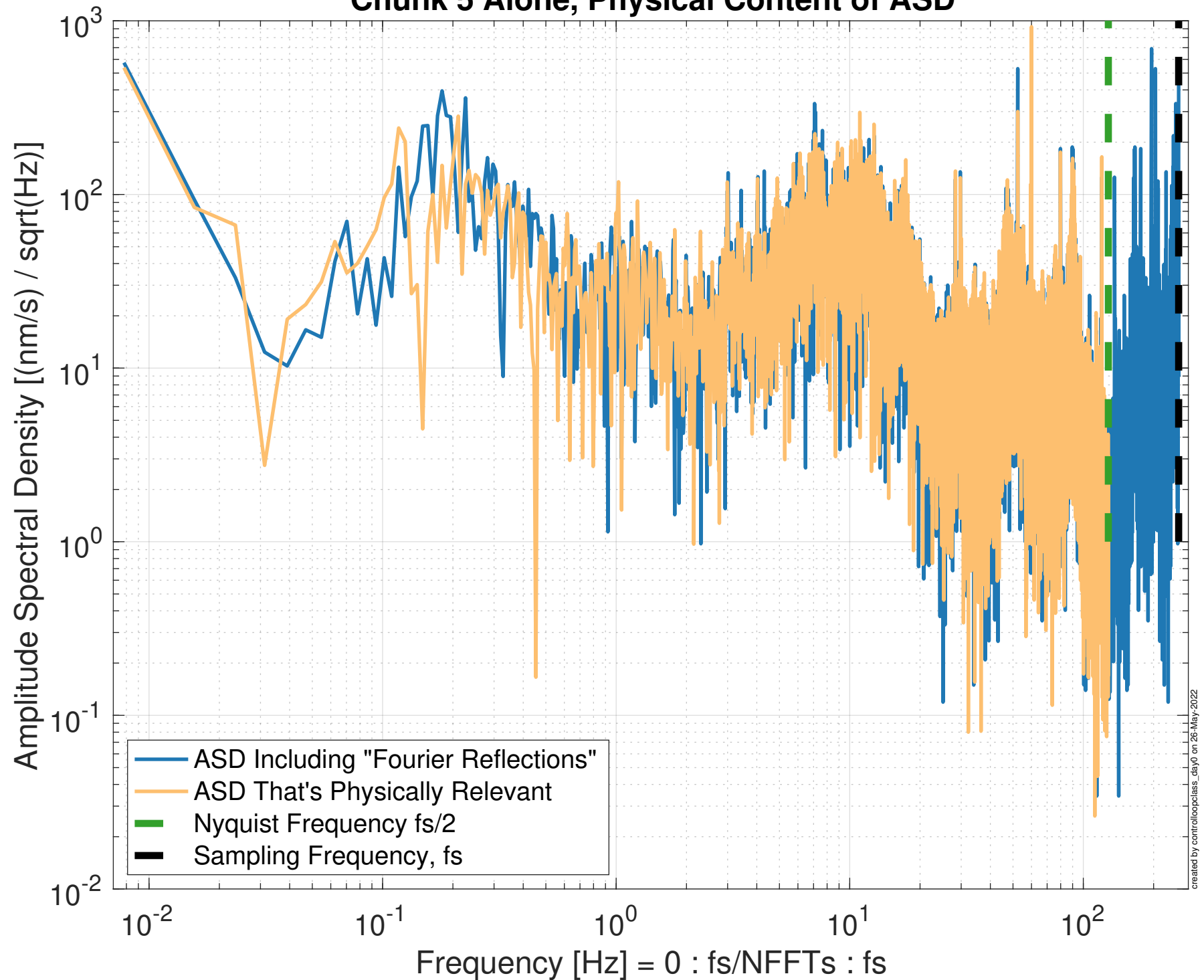
Chunk 5 Alone, Fast (Discrete) Fourier Transform, $|\text{FFT}|^2 = \text{FFT} \cdot \text{conj}(\text{FFT})$



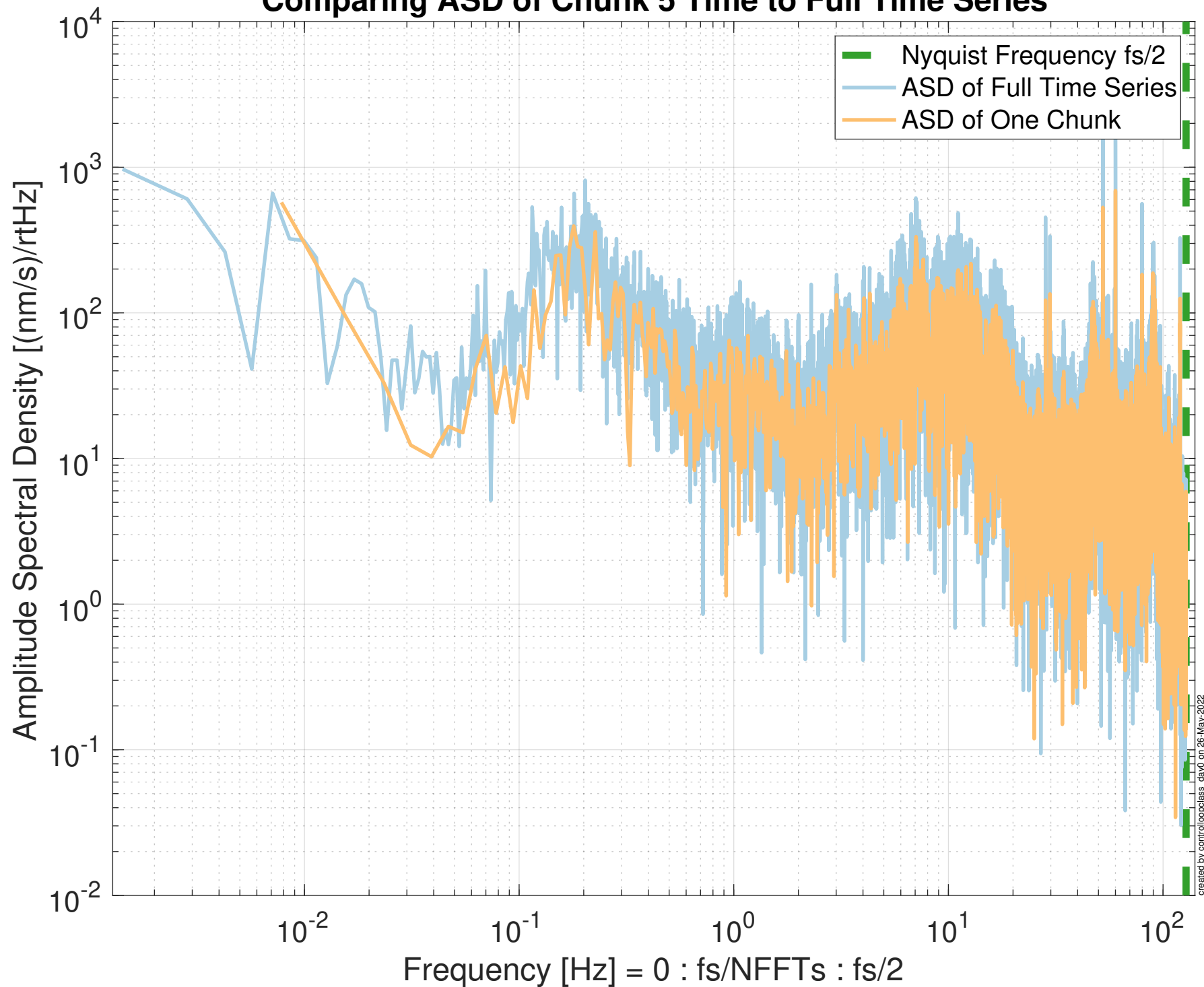
Chunk 5 Alone, ASD = $\text{sqrt}(\text{PSD}) = \text{sqrt}(2/(T \cdot f_s^2) * |\text{FFT}|^2)$



Chunk 5 Alone, Physical Content of ASD

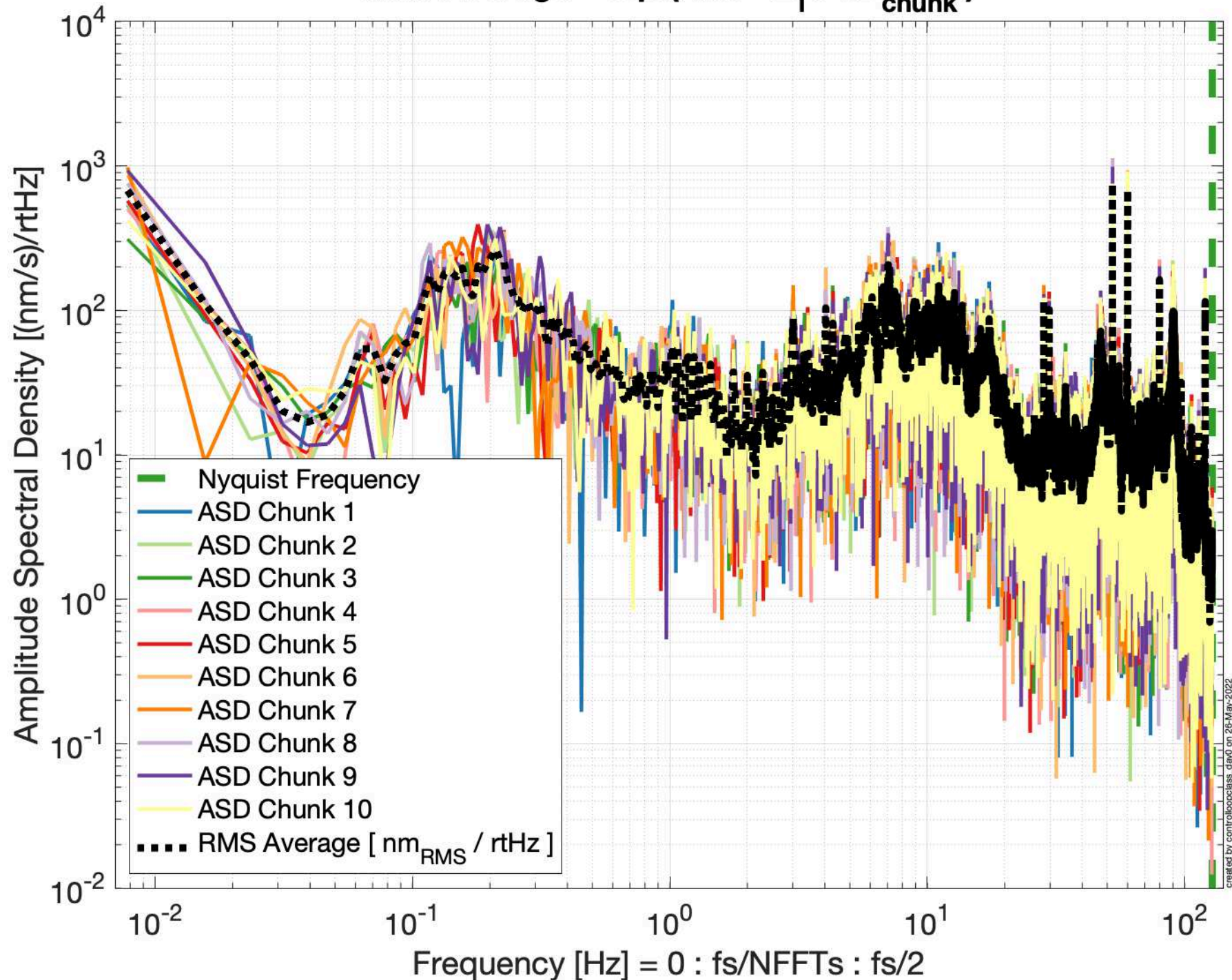


Comparing ASD of Chunk 5 Time to Full Time Series



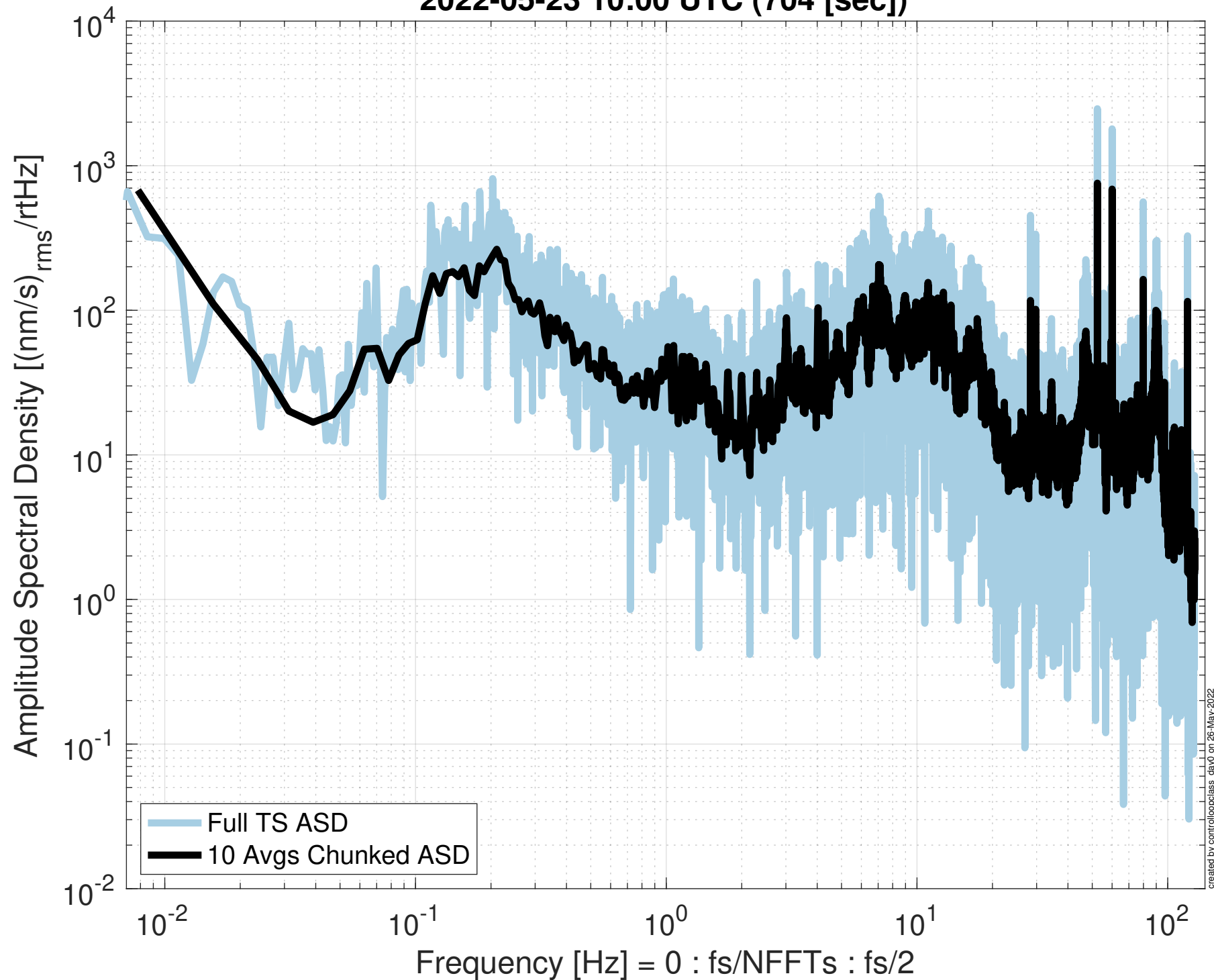
Comparing ASDs of All Chunks against RMS Average

$$\text{RMS Average} = \text{sqrt}(1/N * \sum_i \text{PSD}_{\text{chunk}}^i)$$



H1 ETMX Ground Motion, X

2022-05-23 10:00 UTC (704 [sec])



H1 ETMX Ground Motion, X

2022-05-23 10:00 UTC (704 [sec])

