Damping Loop Performance
H1:SUS−ETMX P Test Mass Displacement

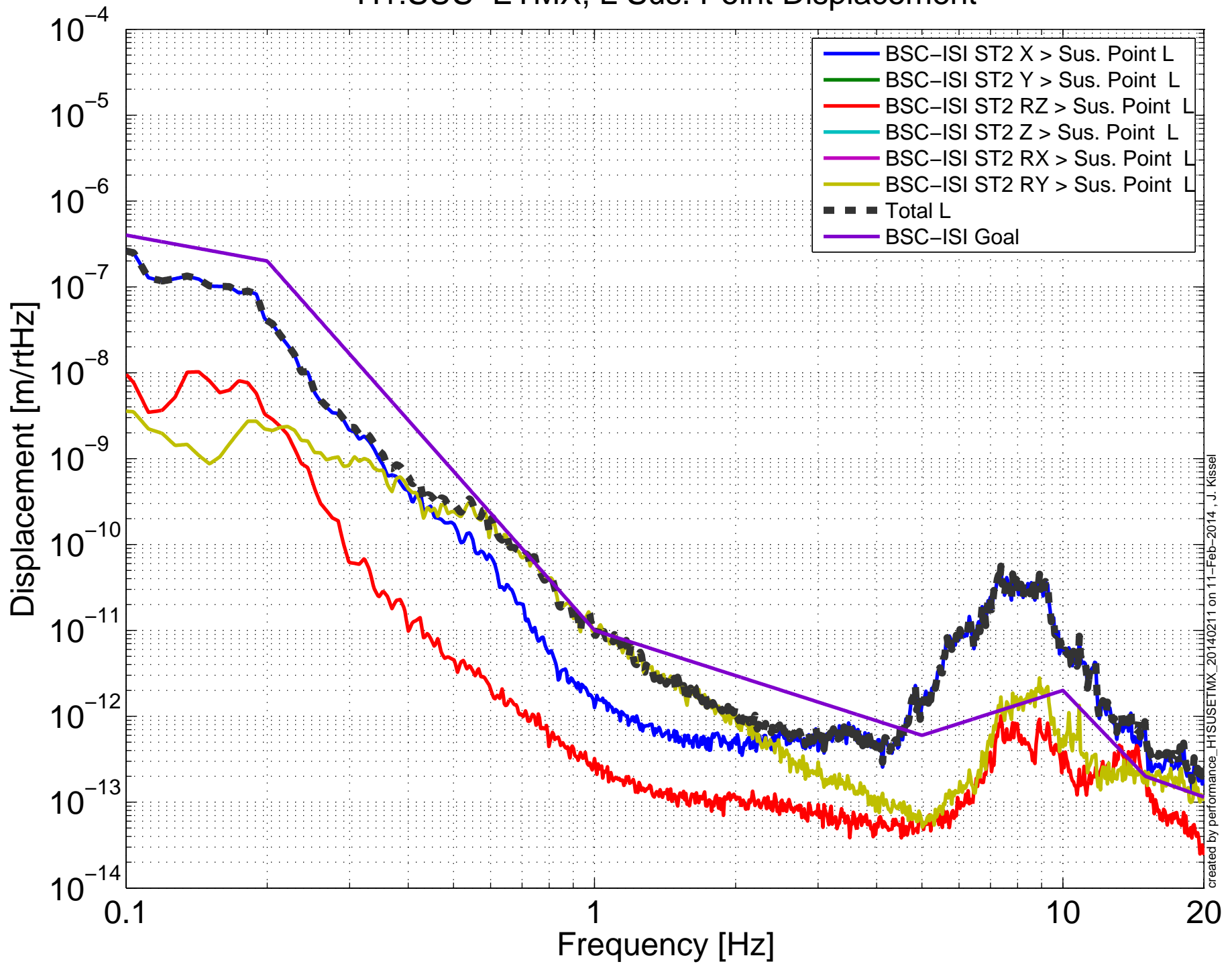created by performance_H1SUSETMX_20140211 on 11−Feb−2014 , J. Kissel
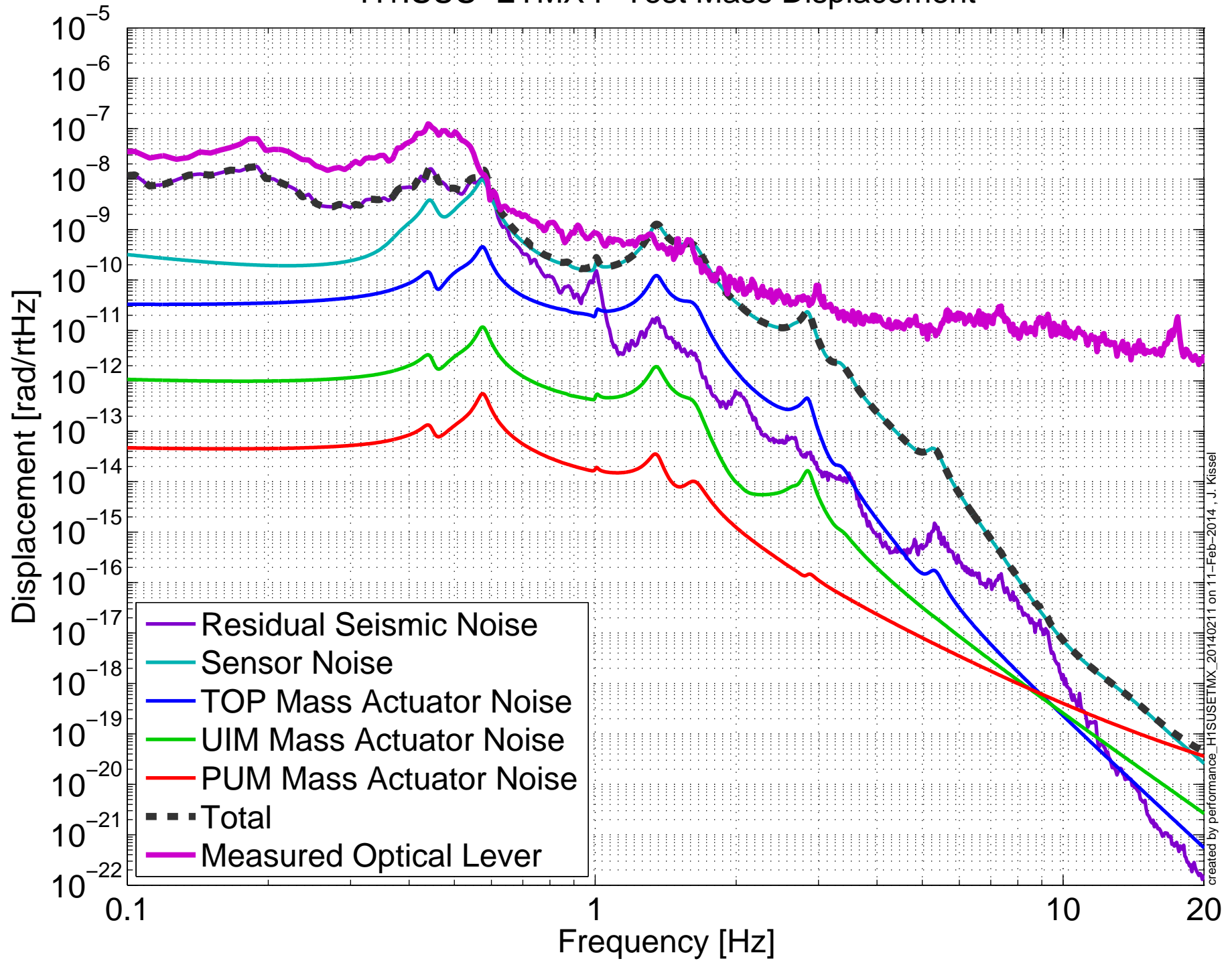
Damping Loop Performance
H1:SUS−ETMX Y Test Mass Displacement

Legend:
- Residual Seismic Noise
- Sensor Noise
- TOP Mass Actuator Noise
- UIM Mass Actuator Noise
- PUM Mass Actuator Noise
- Total
- Measured Optical Lever

X-axis: Frequency [Hz]

Y-axis: Displacement [rad/rtHz]

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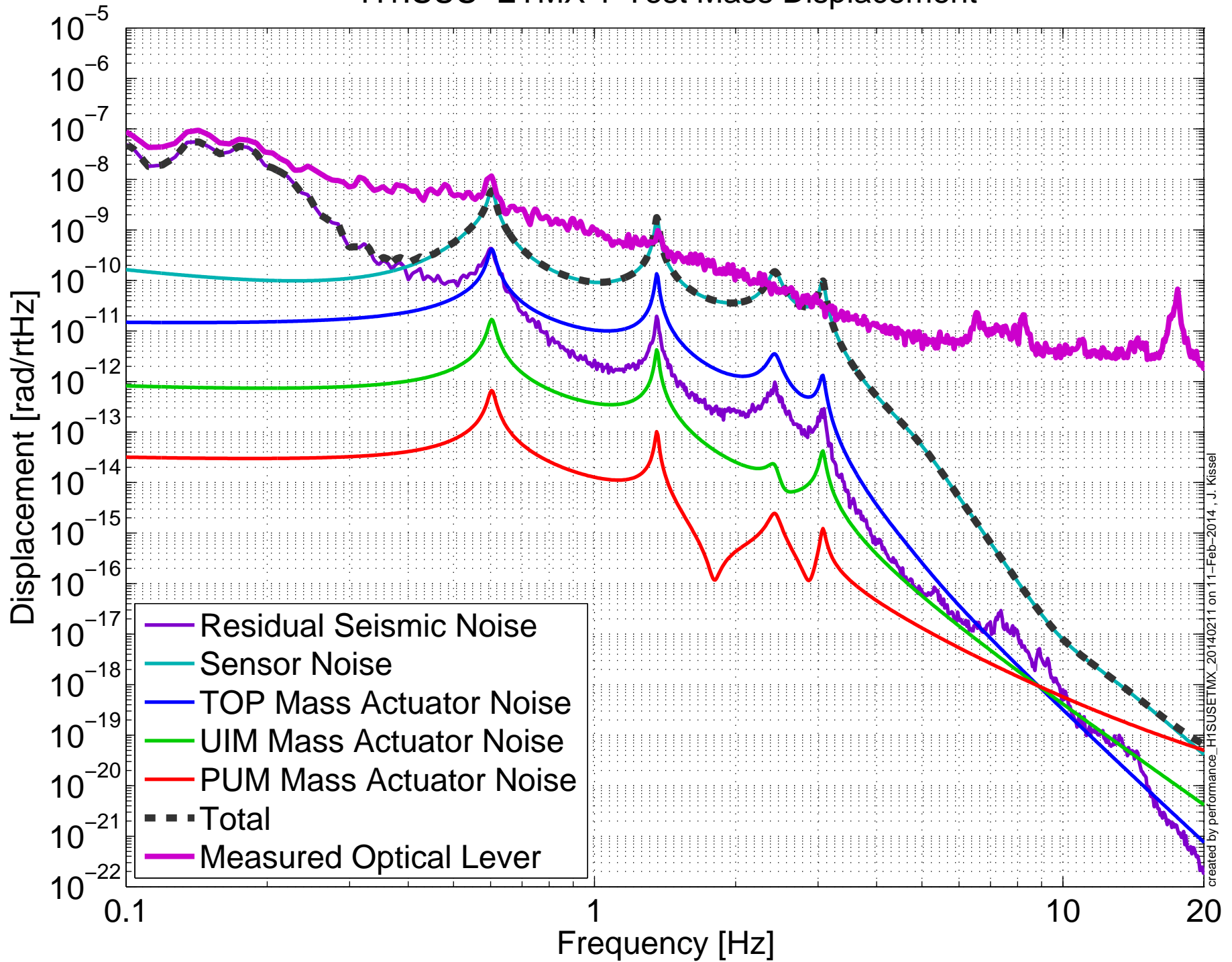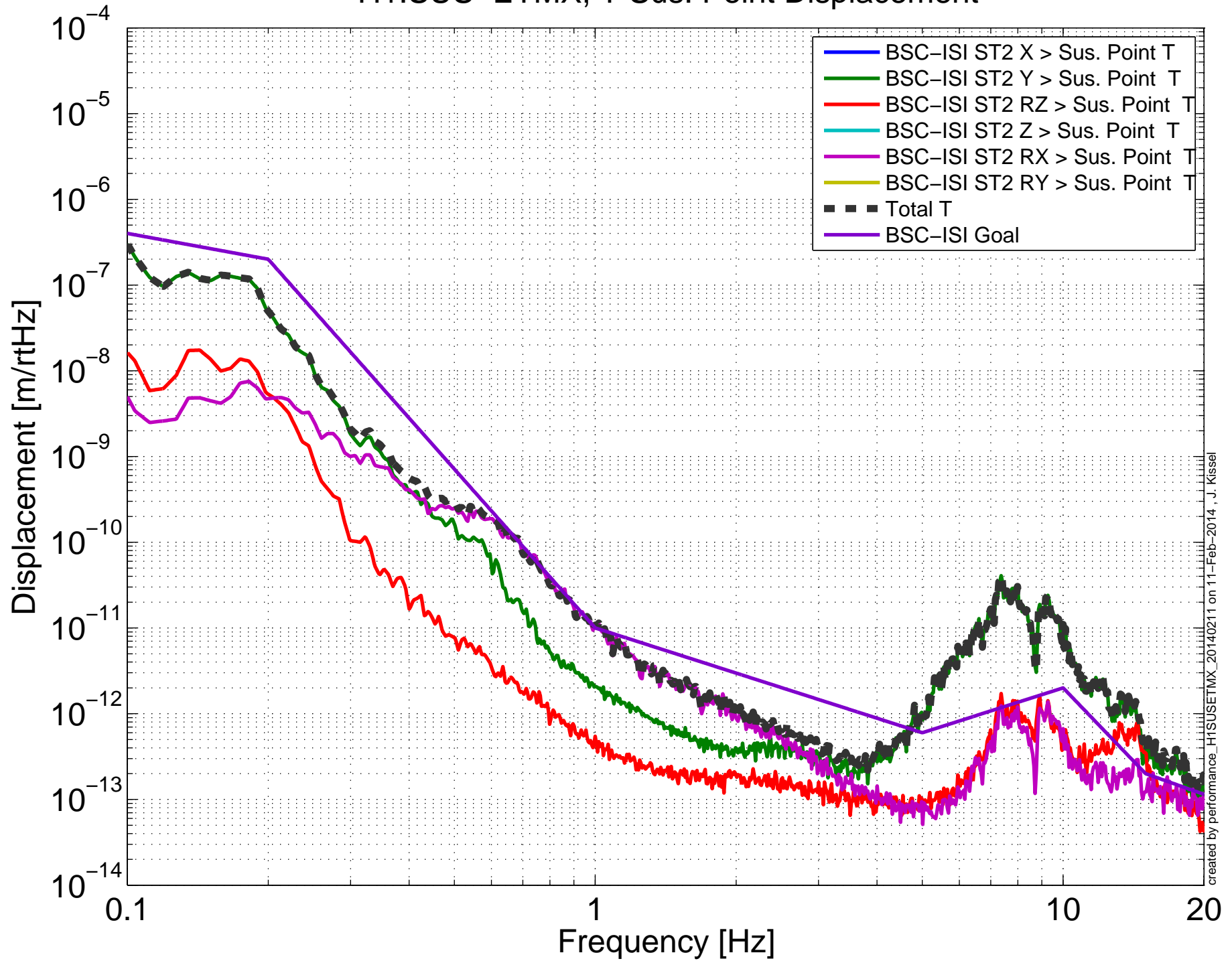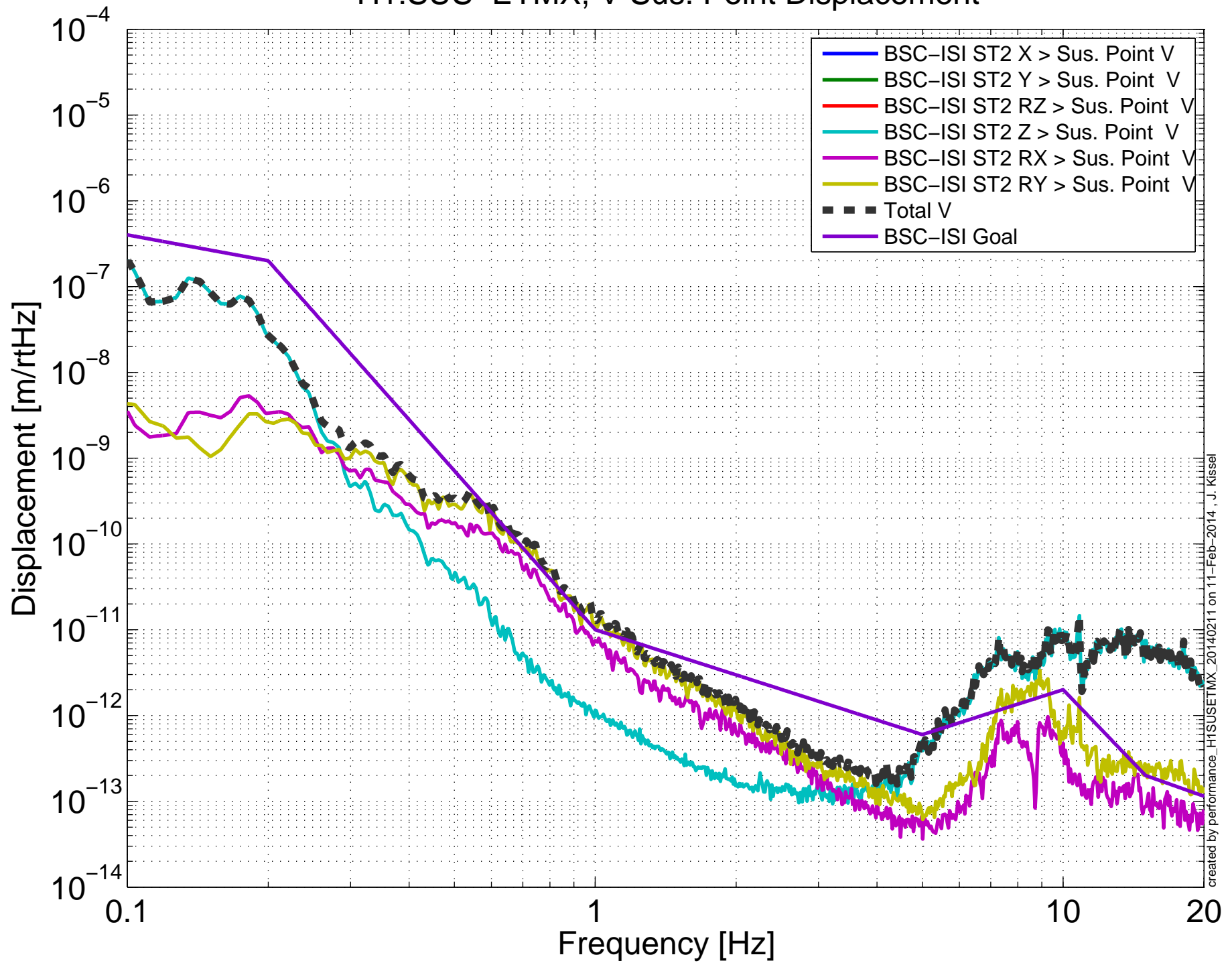
Projected ISI Seismic Noise Budget
H1:SUS−ETMX, L Sus. Point Displacement

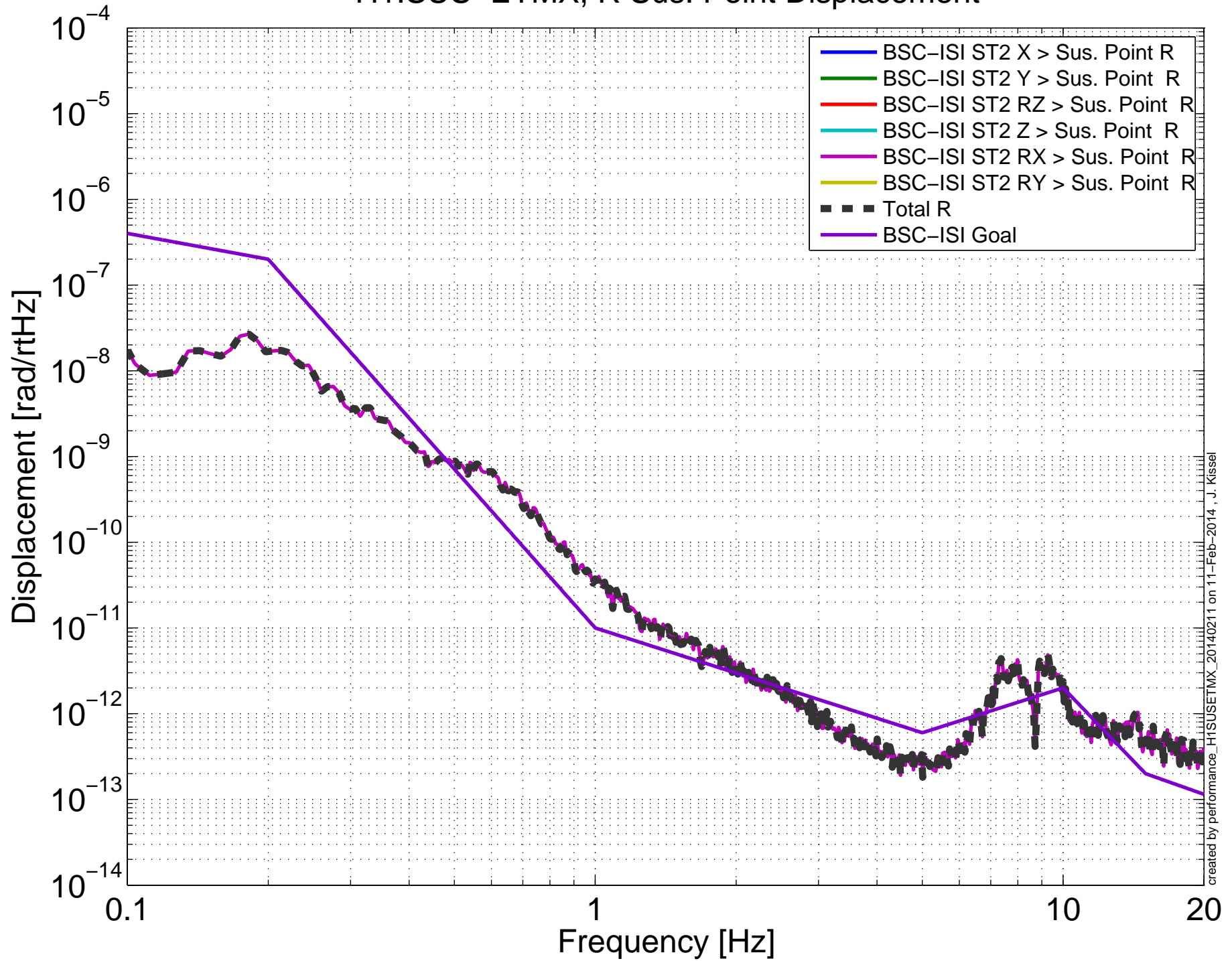Projected ISI Seismic Noise Budget
H1:SUS−ETMX, T Sus. Point Displacement

Projected ISI Seismic Noise Budget
H1:SUS–ETMX, V Sus. Point Displacement

Legend:
- BSC–ISI ST2 X > Sus. Point V
- BSC–ISI ST2 Y > Sus. Point V
- BSC–ISI ST2 RZ > Sus. Point V
- BSC–ISI ST2 Z > Sus. Point V
- BSC–ISI ST2 RX > Sus. Point V
- BSC–ISI ST2 RY > Sus. Point V
- Total V
- BSC–ISI Goal

X-axis: Frequency [Hz]
Y-axis: Displacement [m/rtHz]

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Projected ISI Seismic Noise Budget
H1:SUS−ETMX, R Sus. Point Displacement

Legend:
- BSC−ISI ST2 X > Sus. Point R
- BSC−ISI ST2 Y > Sus. Point R
- BSC−ISI ST2 RZ > Sus. Point R
- BSC−ISI ST2 Z > Sus. Point R
- BSC−ISI ST2 RX > Sus. Point R
- BSC−ISI ST2 RY > Sus. Point R
- Total R
- BSC−ISI Goal

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Projected ISI Seismic Noise Budget
H1:SUS−ETMX, P Sus. Point Displacement

Projected ISI Seismic Noise Budget
H1:SUS-ETMX, Y Sus. Point Displacement
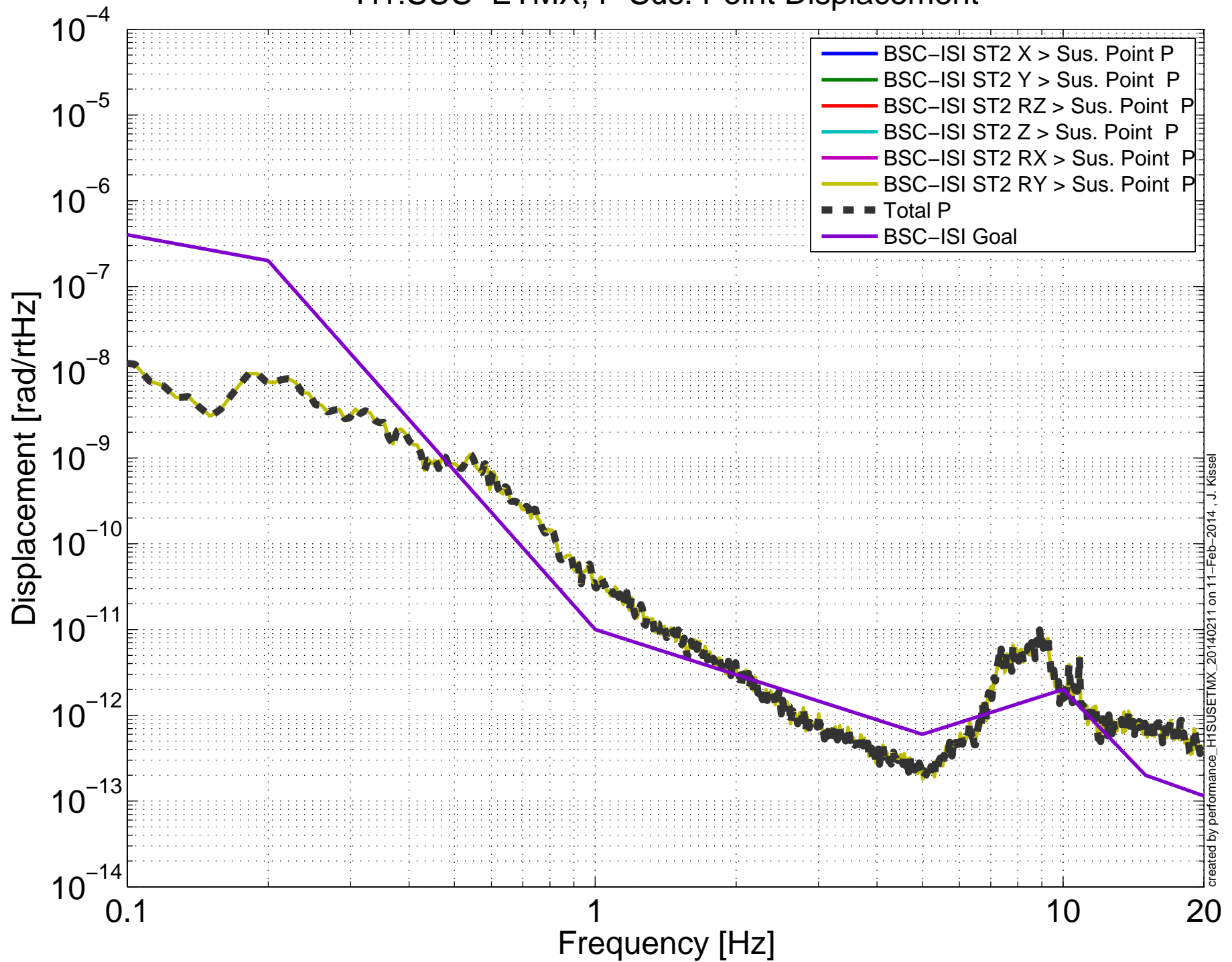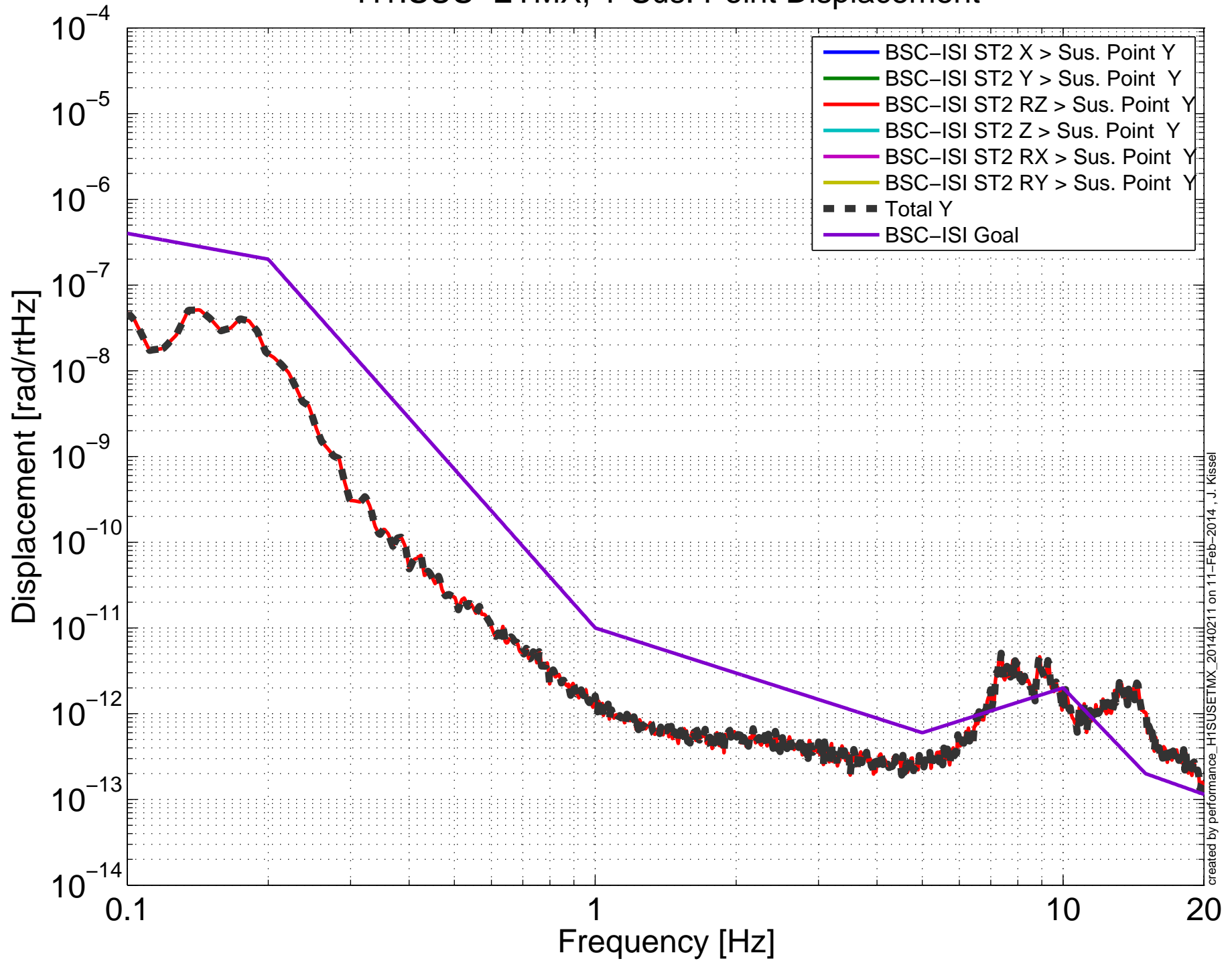
Legend:
- BSC-ISI ST2 X > Sus. Point Y
- BSC-ISI ST2 Y > Sus. Point Y
- BSC-ISI ST2 RZ > Sus. Point Y
- BSC-ISI ST2 Z > Sus. Point Y
- BSC-ISI ST2 RX > Sus. Point Y
- BSC-ISI ST2 RY > Sus. Point Y
- Total Y
- BSC-ISI Goal

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