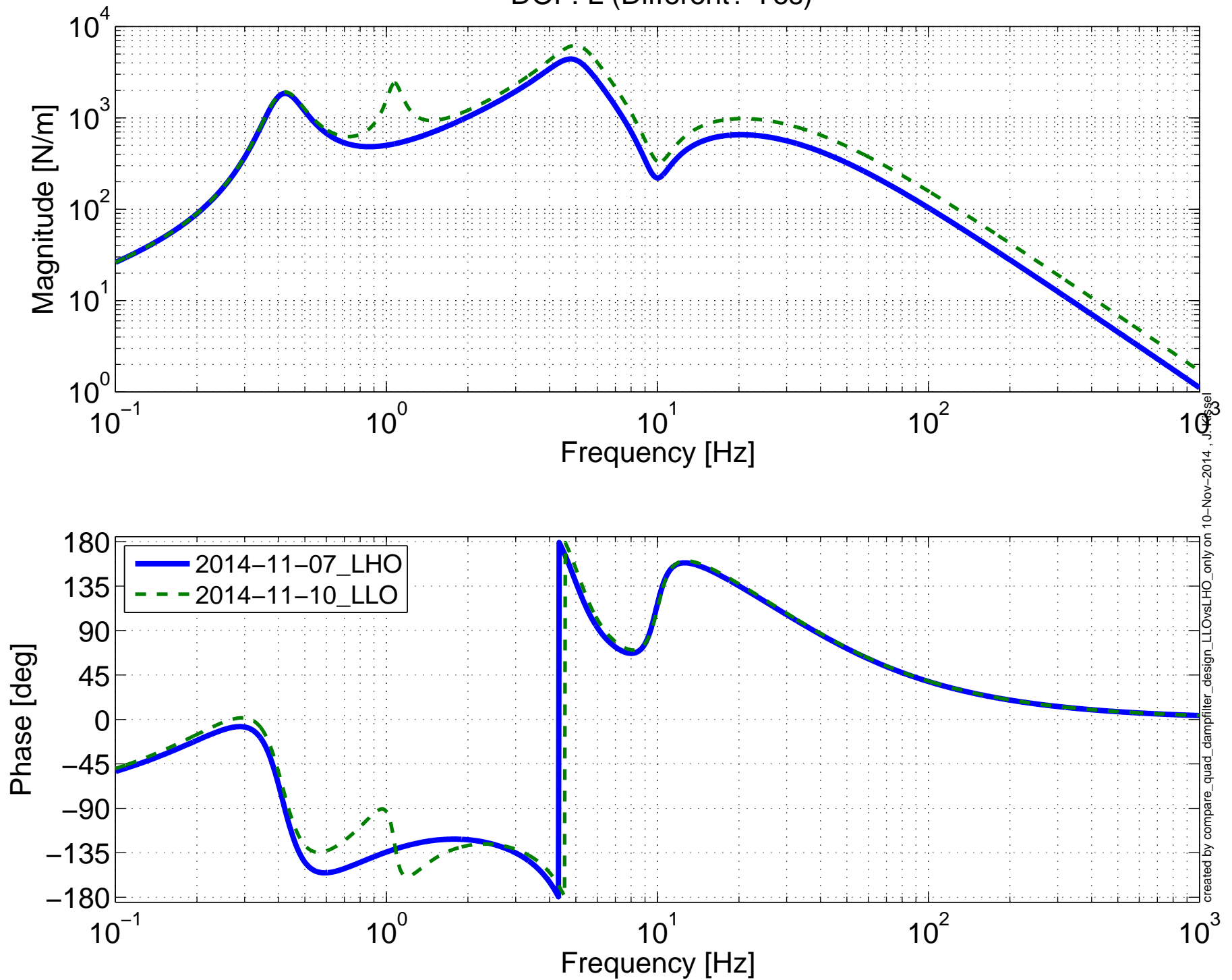
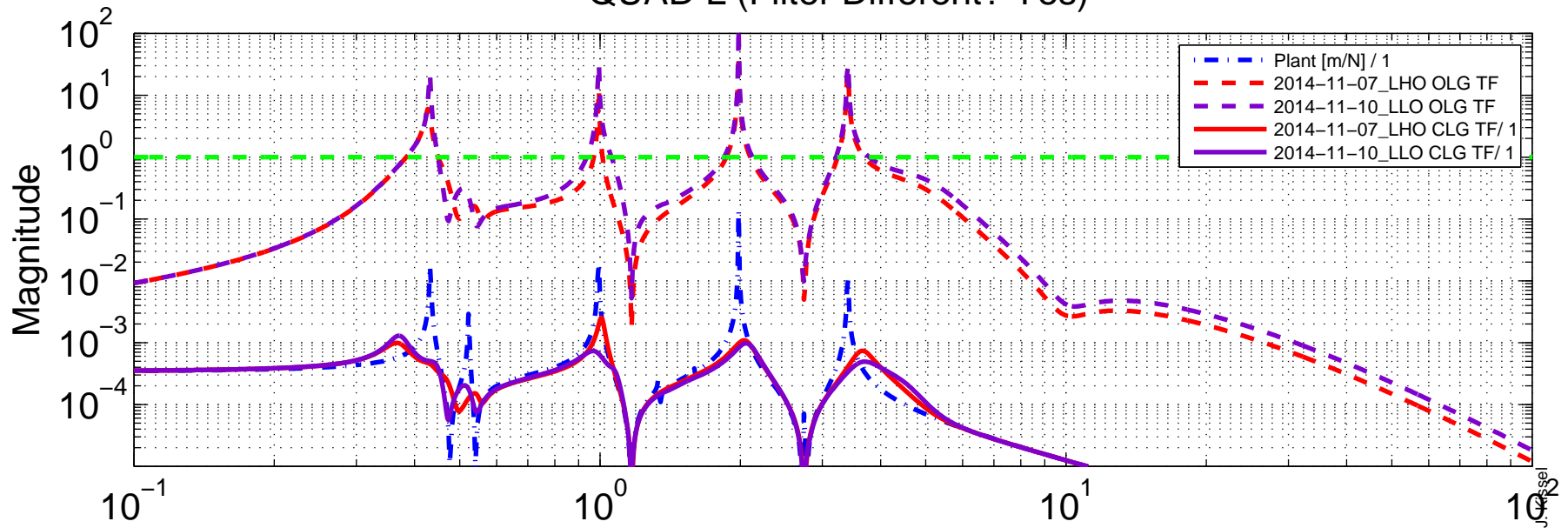


# Calibrated Damping Filter Comparison

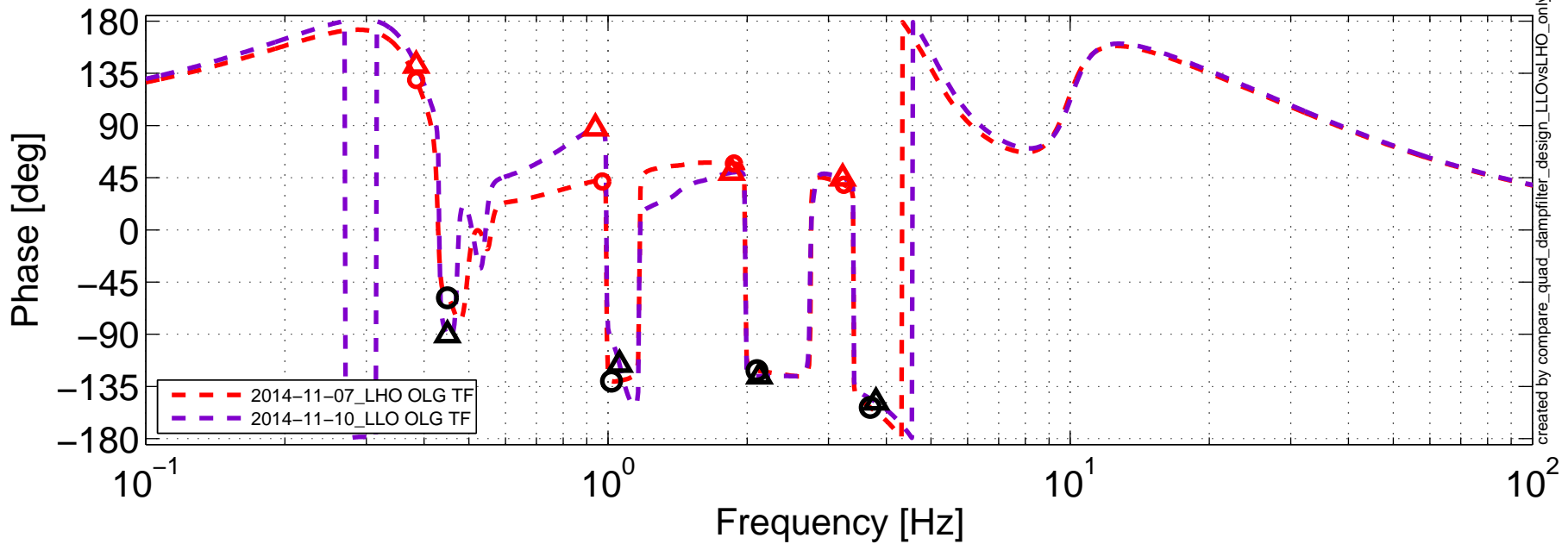
DOF: L (Different? Yes)



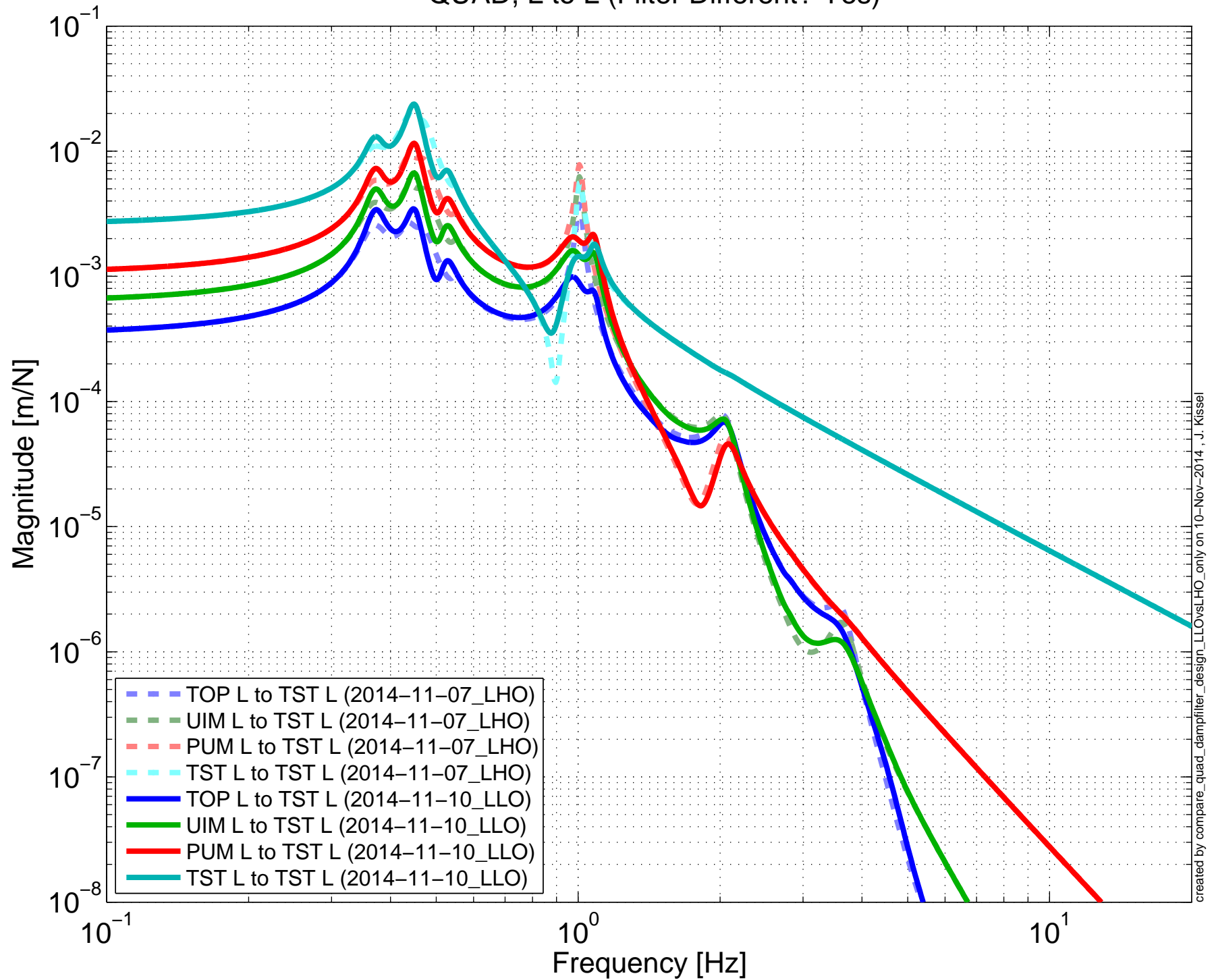
# Damping Loop Design Comparison QUAD L (Filter Different? Yes)



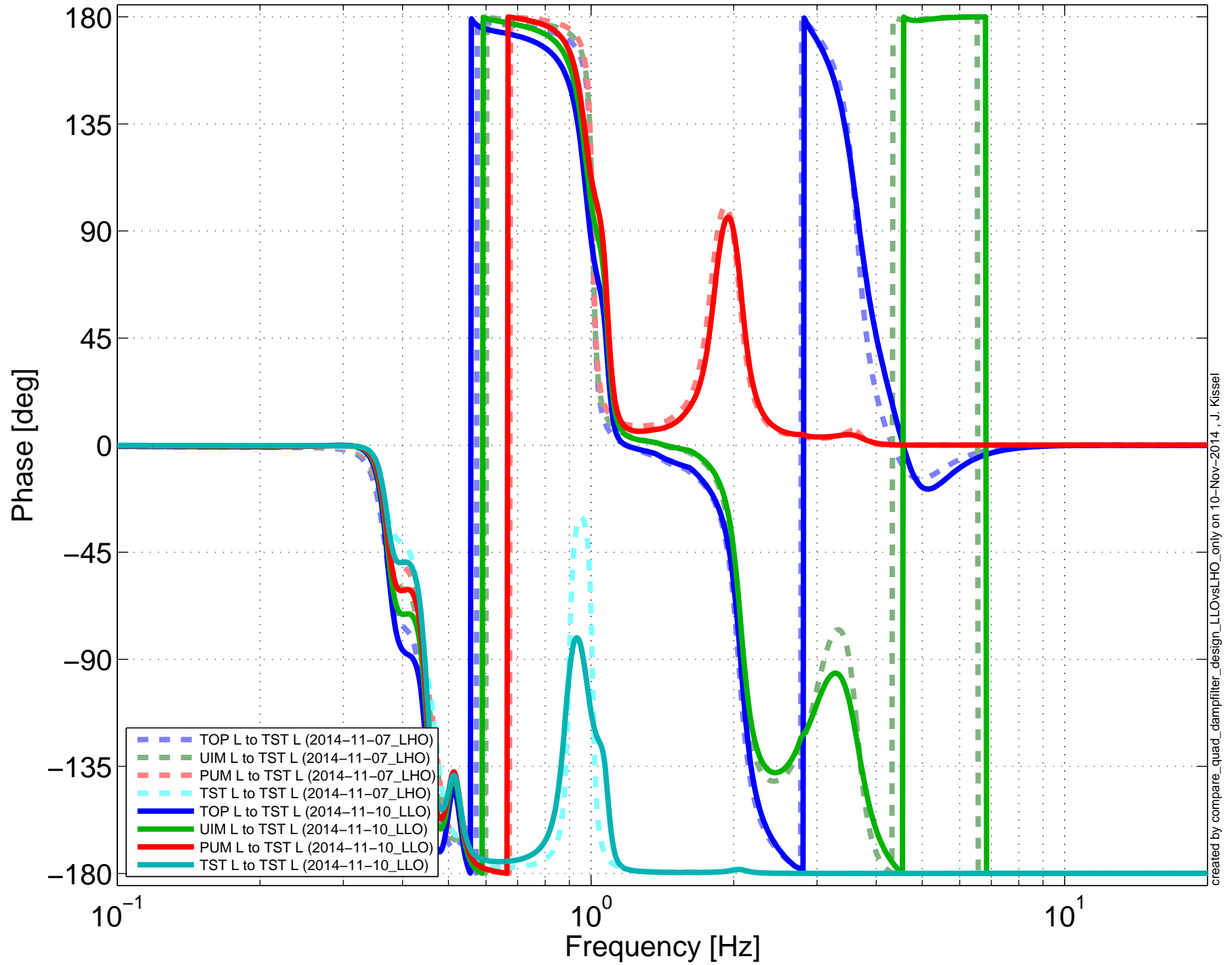
First LUGF [o,^,s] : [LHO, LLO] : [50.7, 38.1] [deg]  
 Last UUGF [o,^,s] : [LHO, LLO] : [26.9, 31.4] [deg]



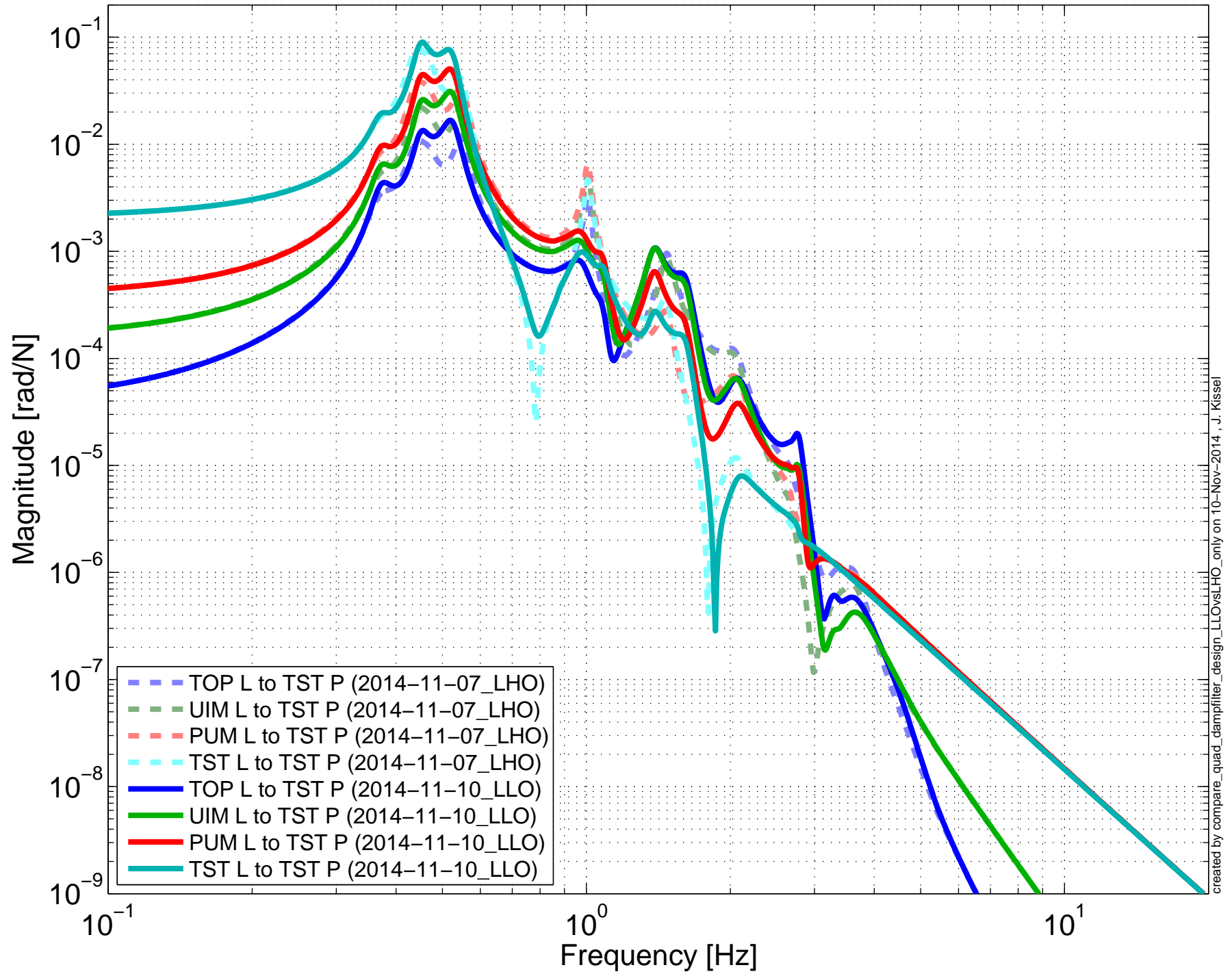
# Global Control Transfer Functions to Optic QUAD, L to L (Filter Different? Yes)



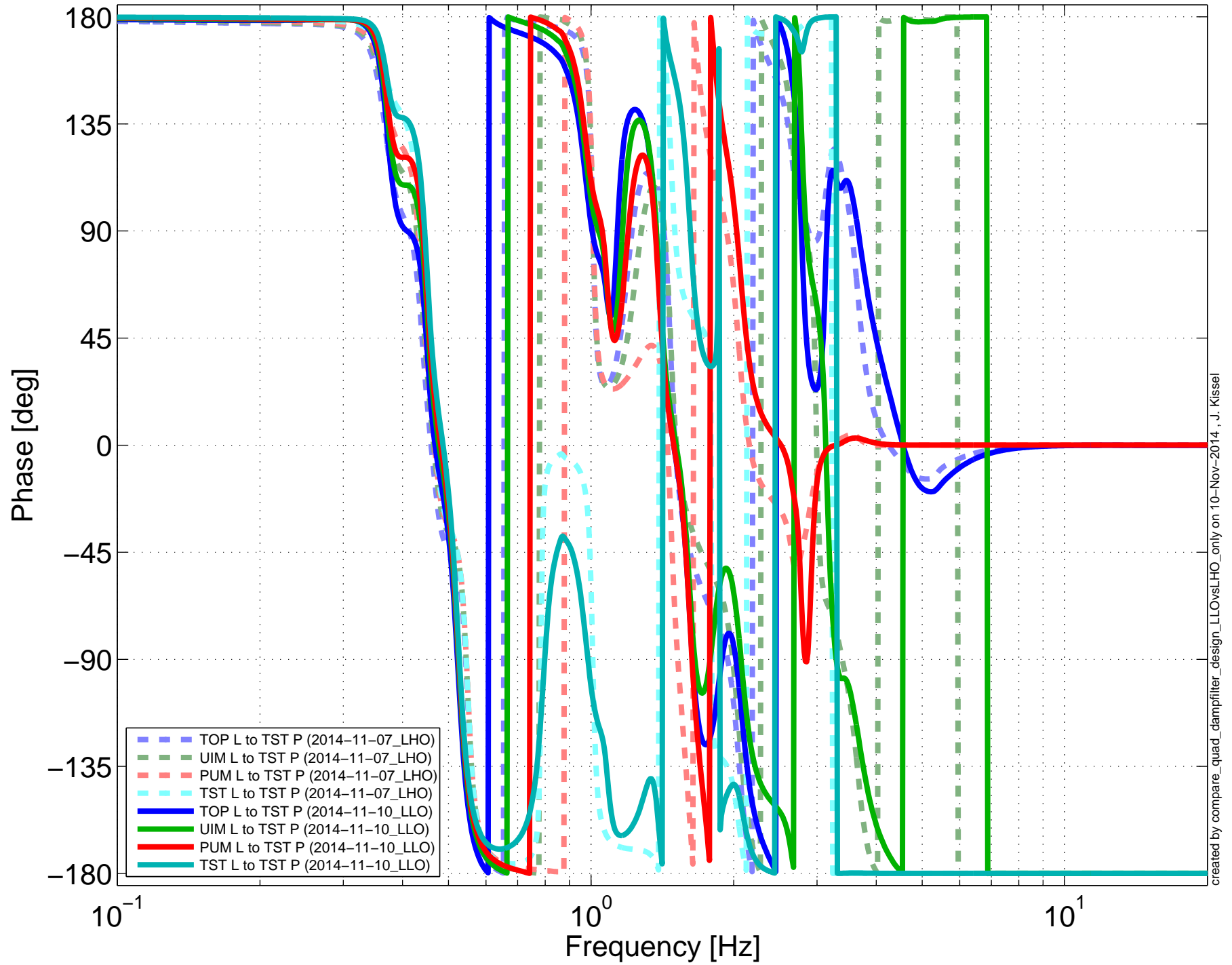
# Global Control Transfer Functions to Optic QUAD, L to L (Filter Different? Yes)

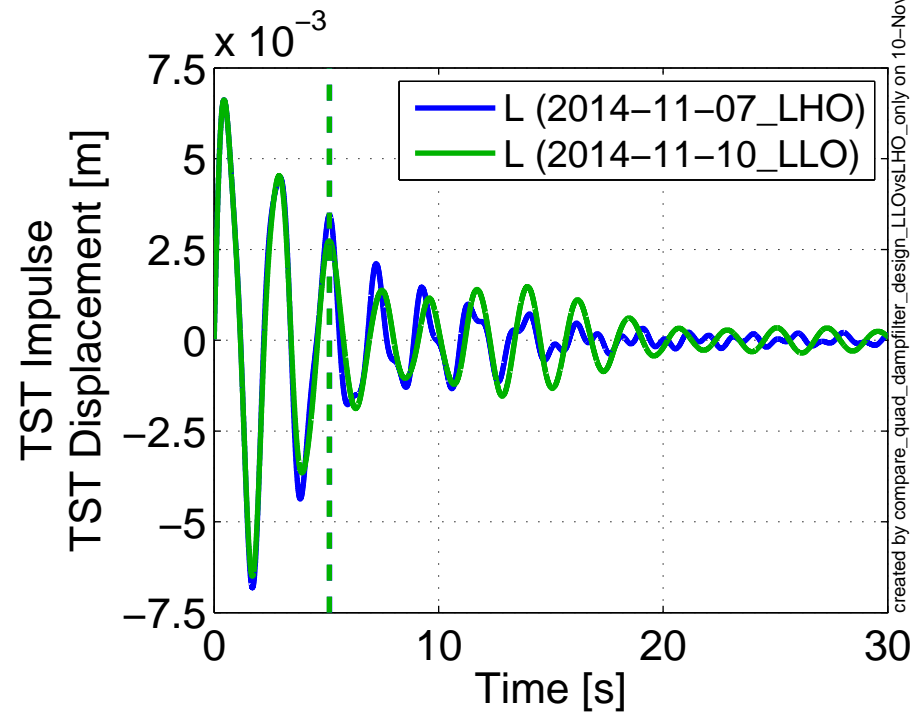
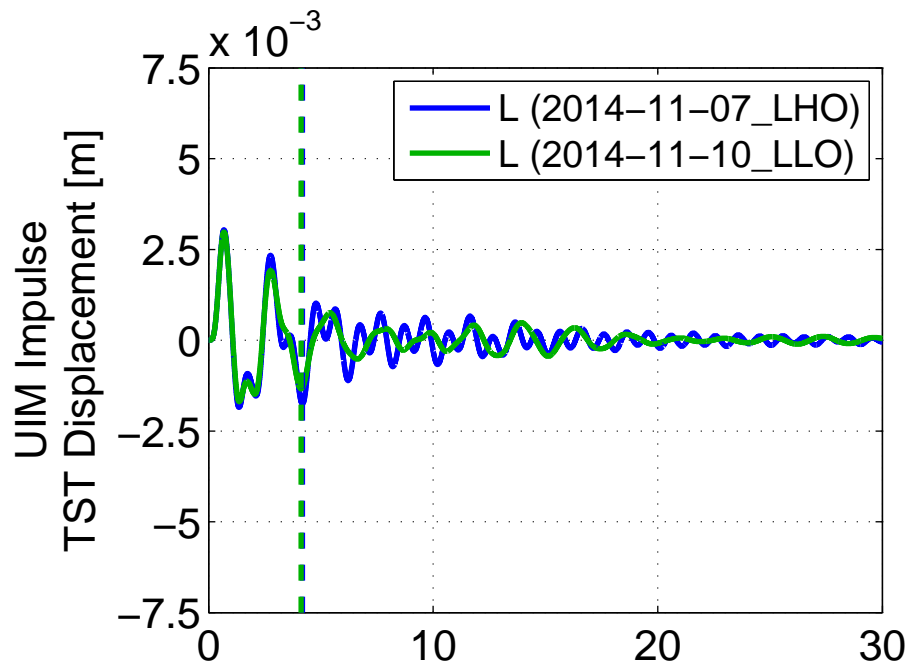
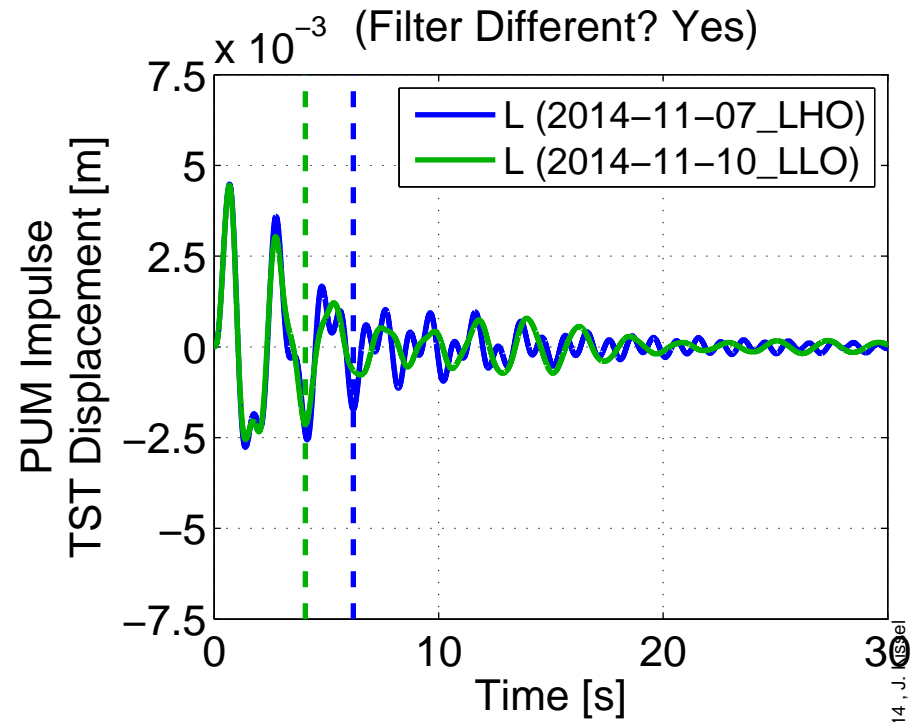
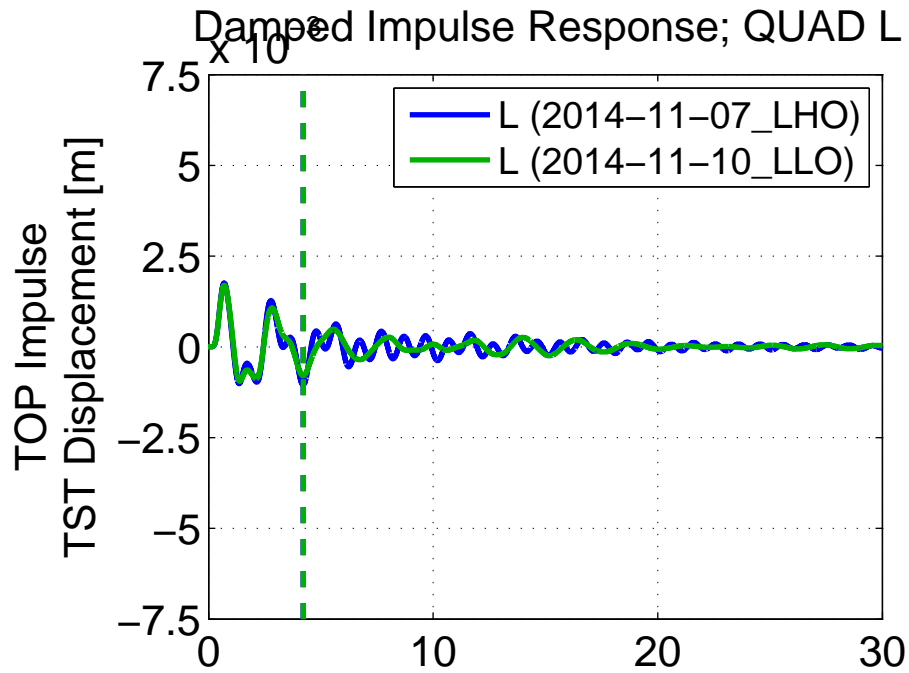


# Global Control Transfer Functions to Optic QUAD, L to P (Filter Different? Yes)



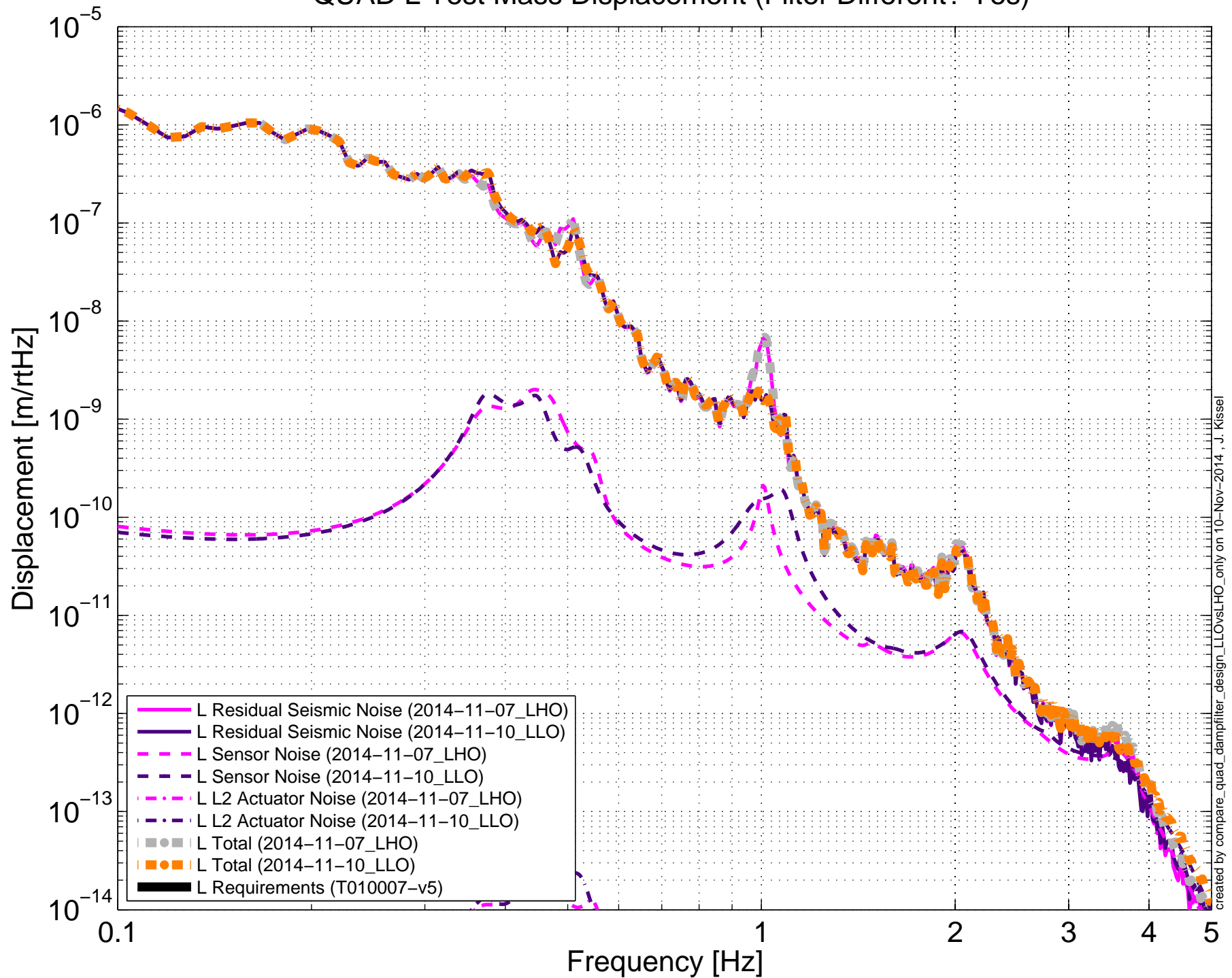
# Global Control Transfer Functions to Optic QUAD, L to P (Filter Different? Yes)





# Damping Loop Performance Comparison

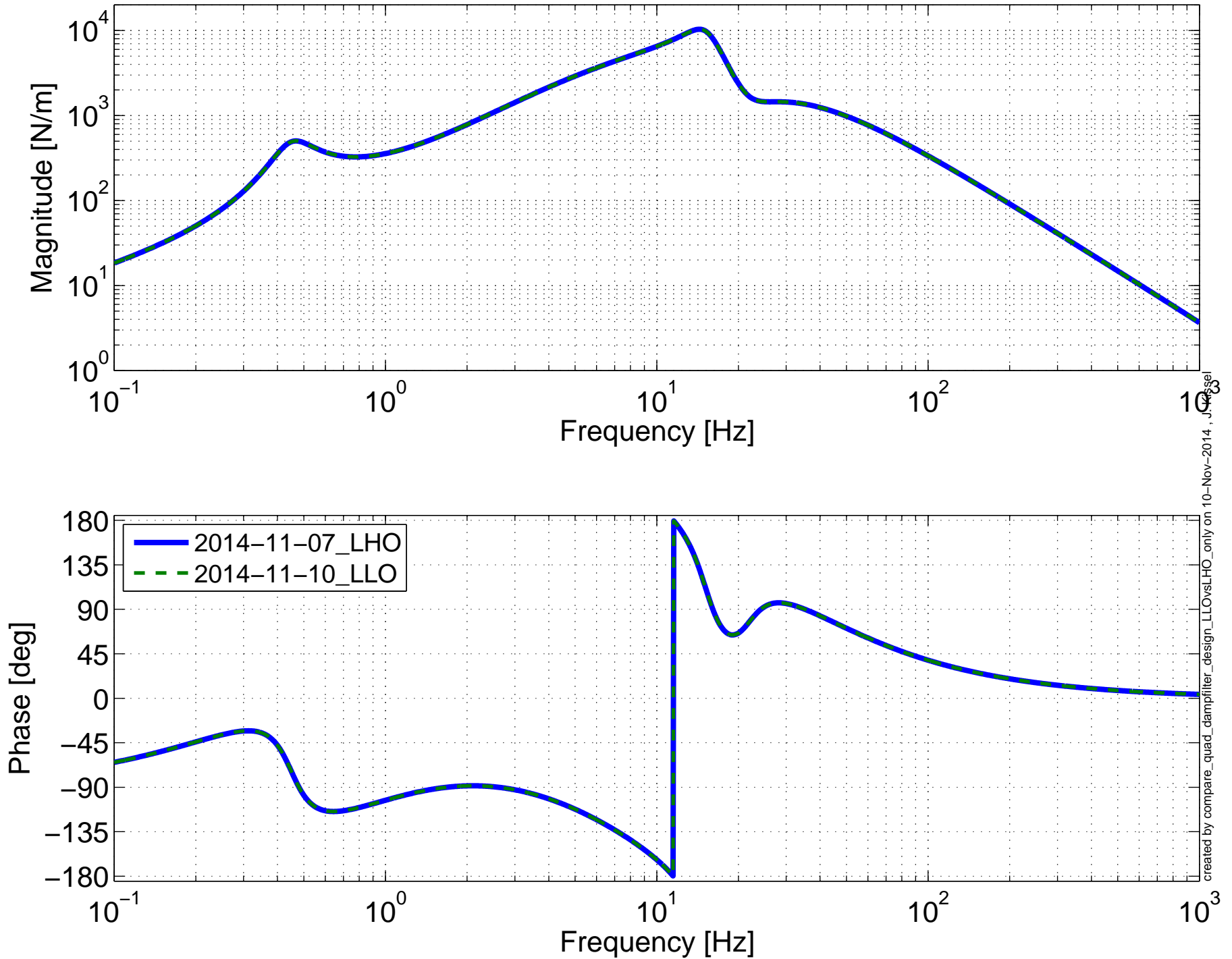
## QUAD L Test Mass Displacement (Filter Different? Yes)



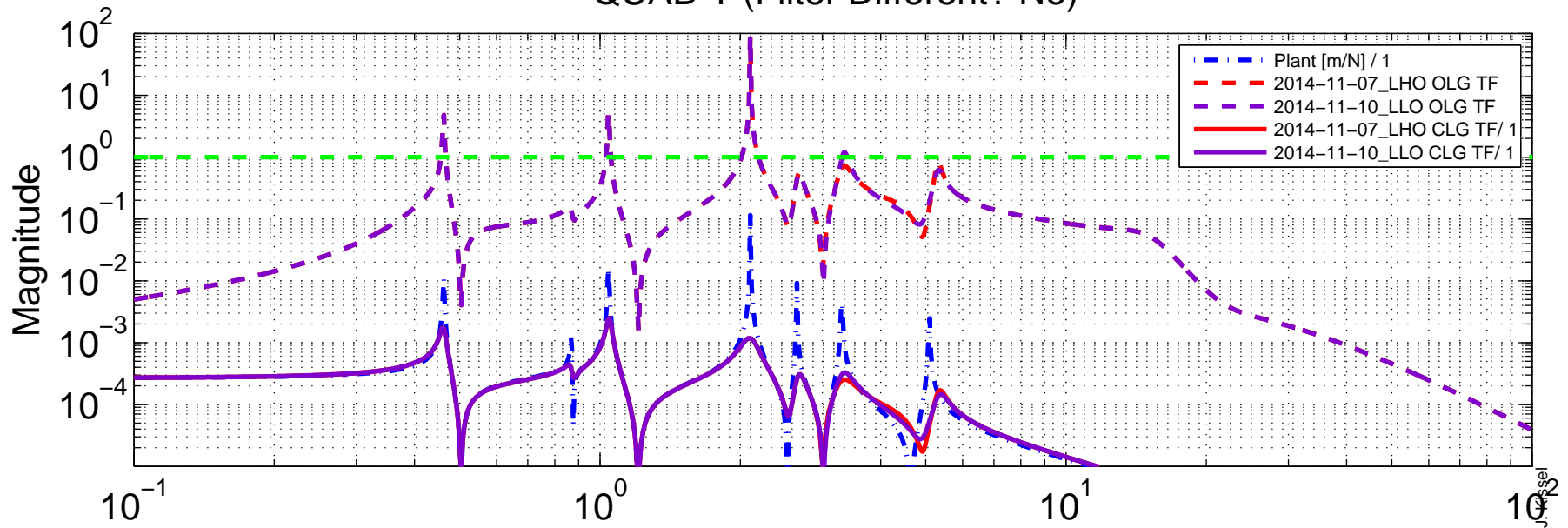


# Calibrated Damping Filter Comparison

DOF: T (Different? No)

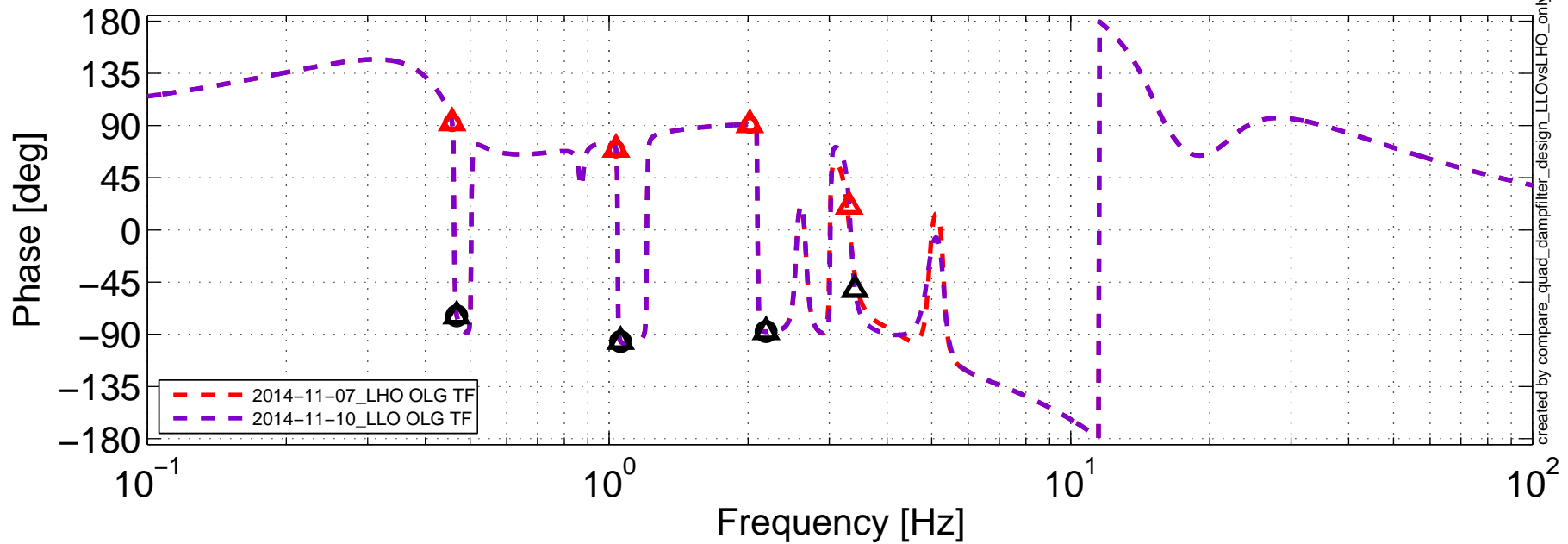


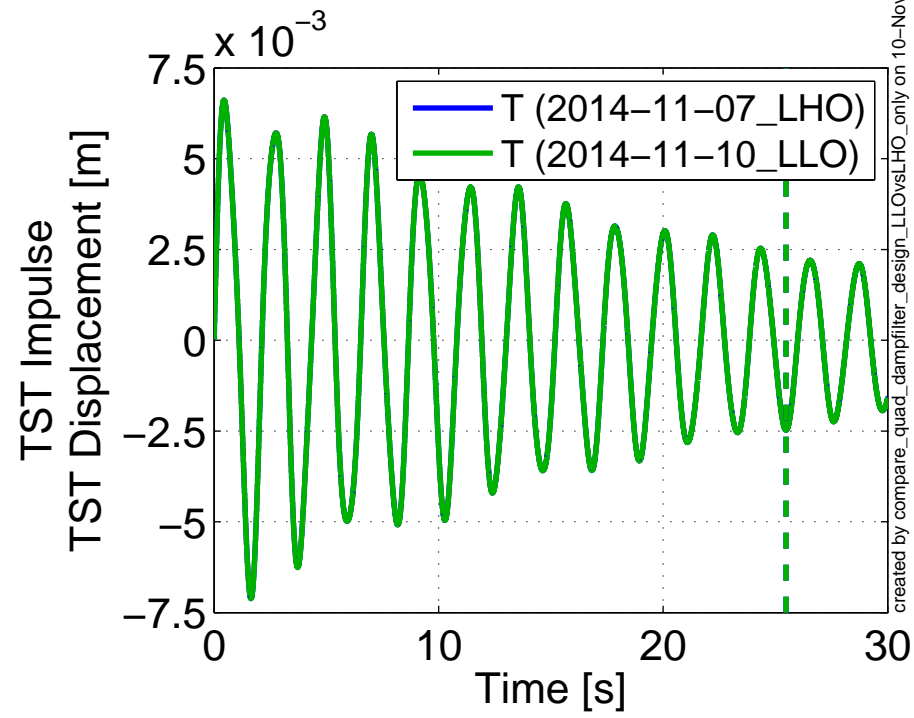
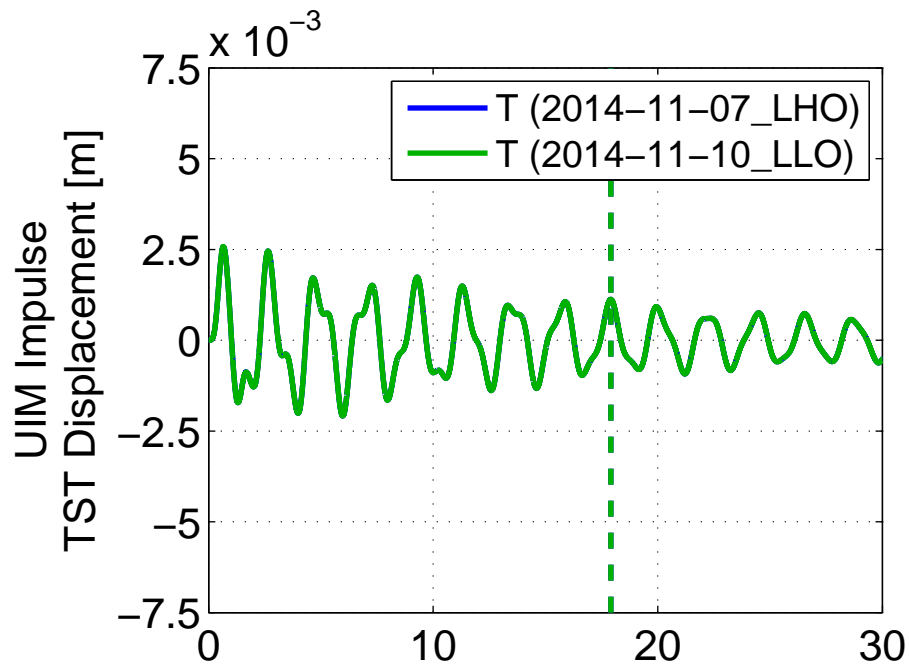
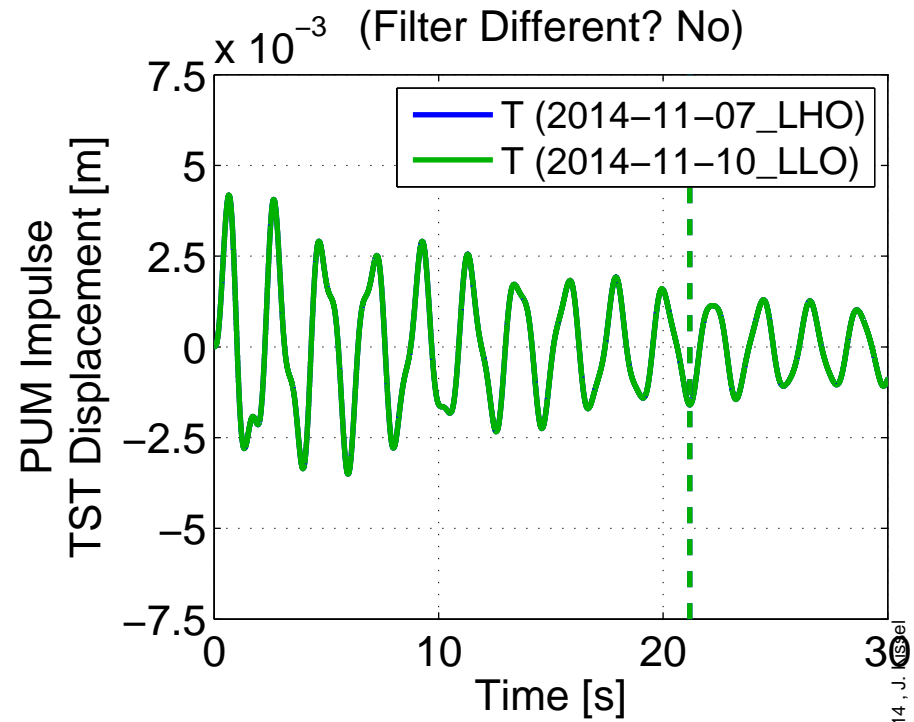
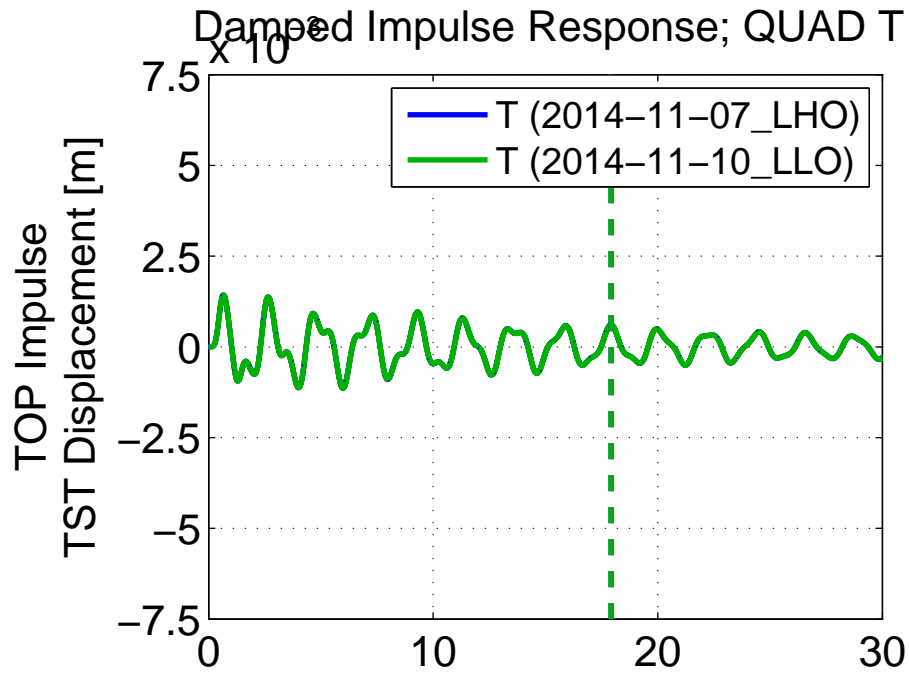
# Damping Loop Design Comparison QUAD T (Filter Different? No)



First LUGF [o,^,s] : [LHO, LLO] : [87.7, 87.7] [deg]

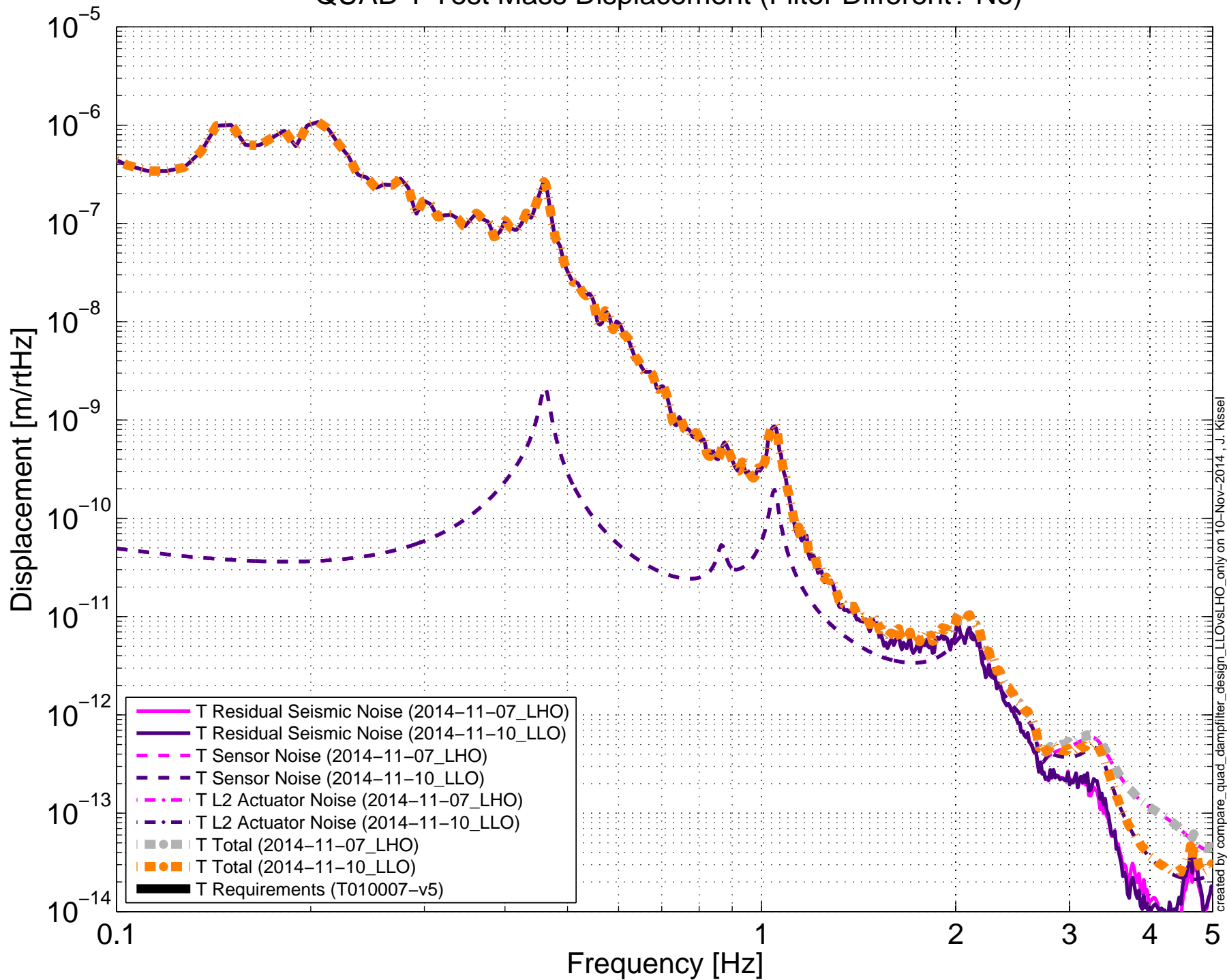
Last UUGF [o,^,s] : [LHO, LLO] : [92.4, 128] [deg]





# Damping Loop Performance Comparison

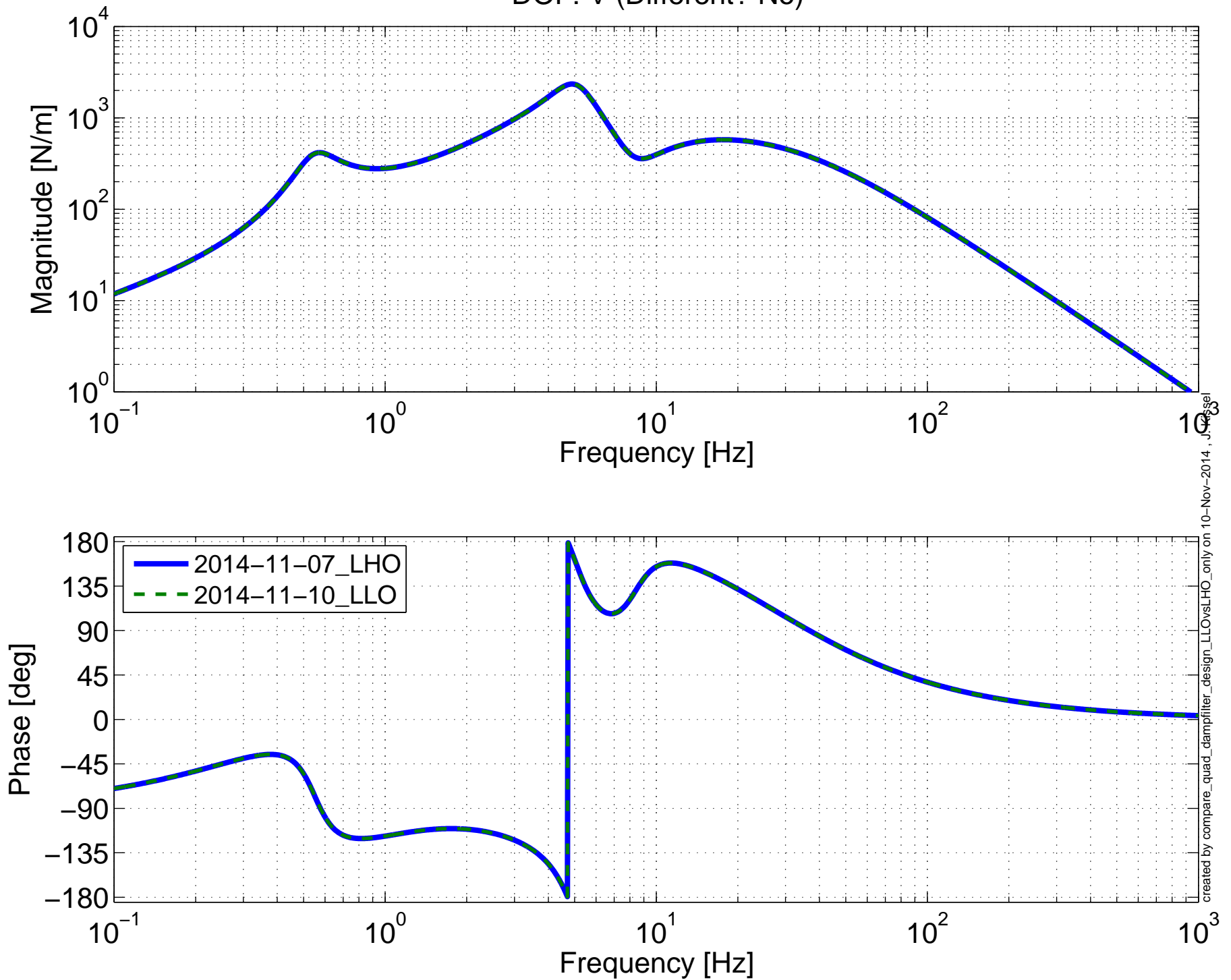
## QUAD T Test Mass Displacement (Filter Different? No)



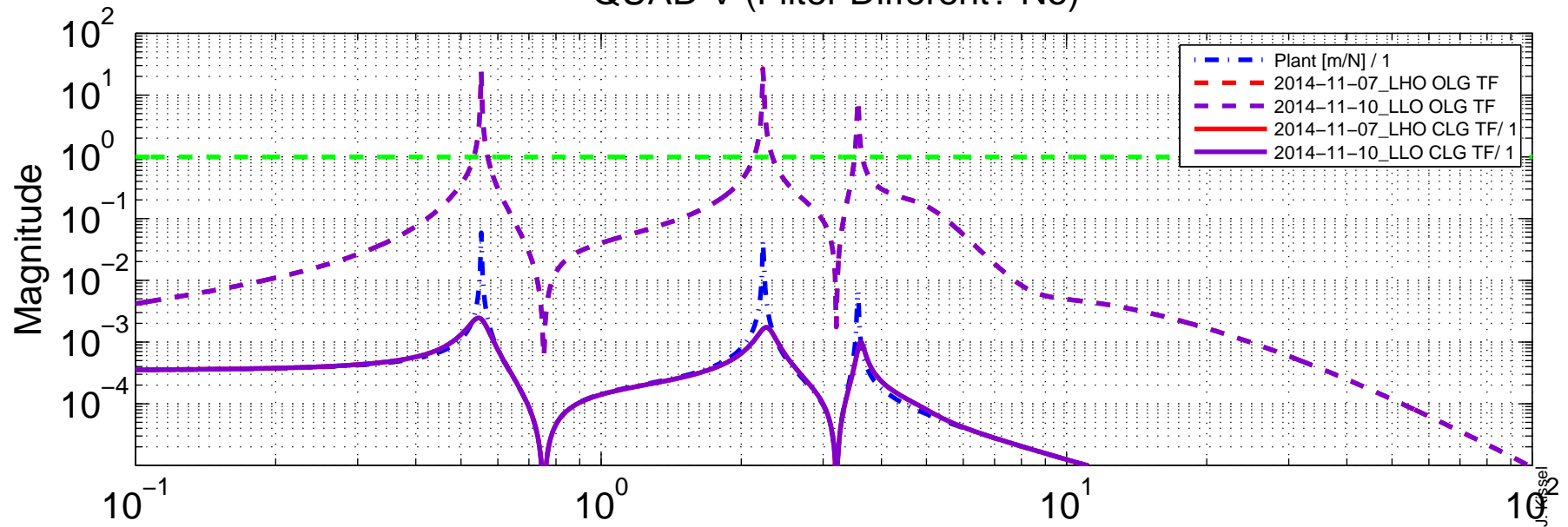
created by compare\_quad\_dampfilter\_design\_LLOvsLHO\_only on 10-Nov-2014, J. Kissel

# Calibrated Damping Filter Comparison

DOF: V (Different? No)

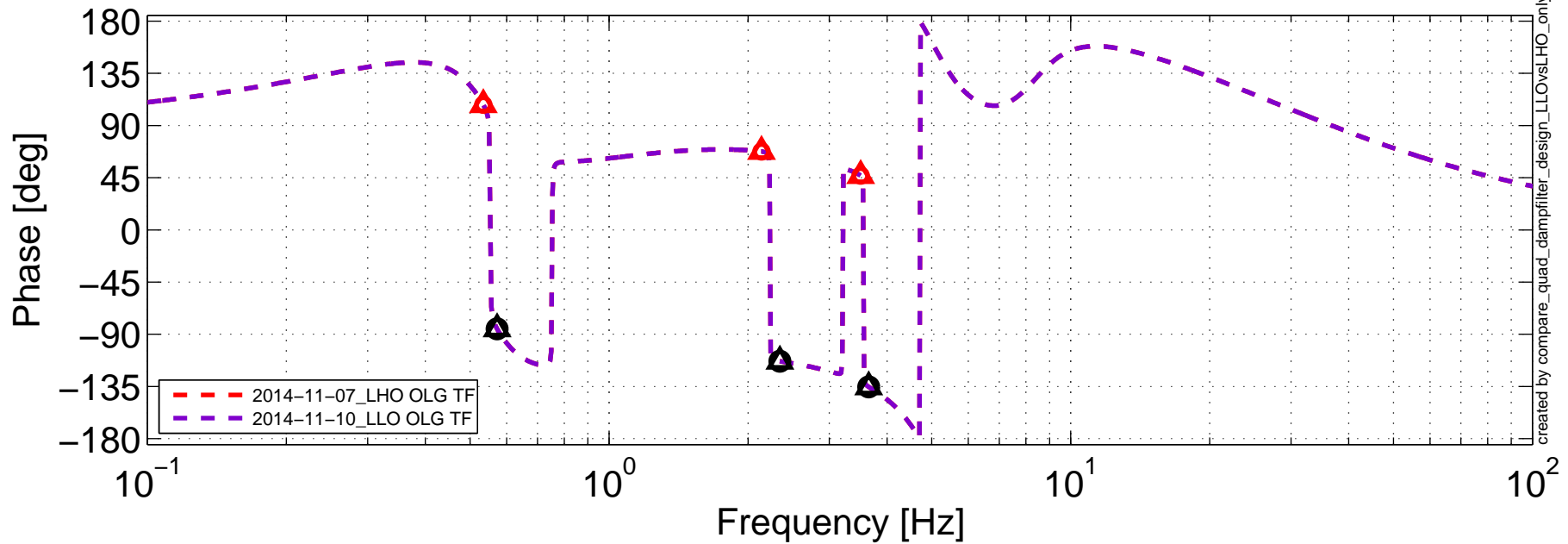


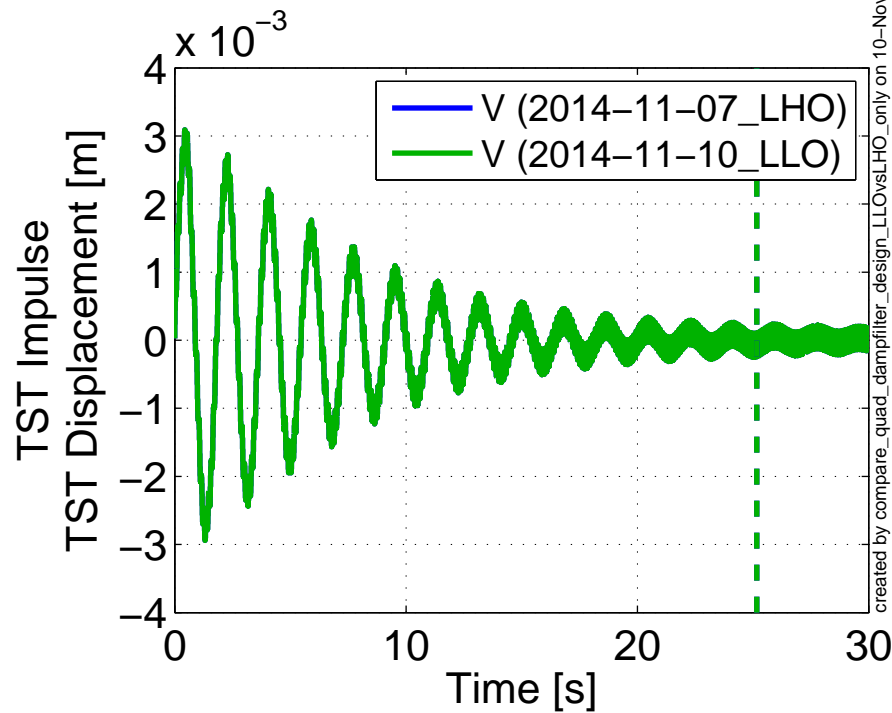
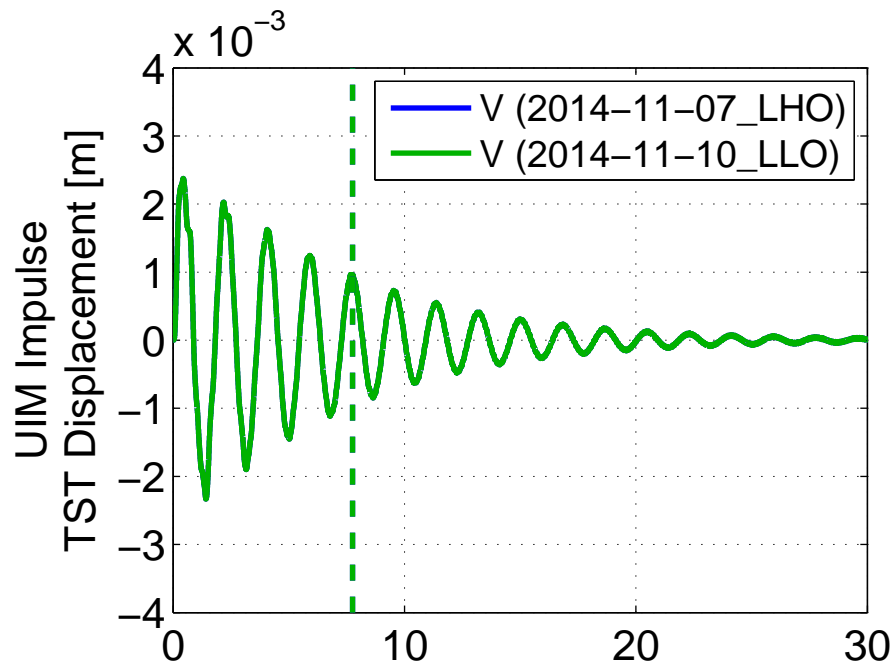
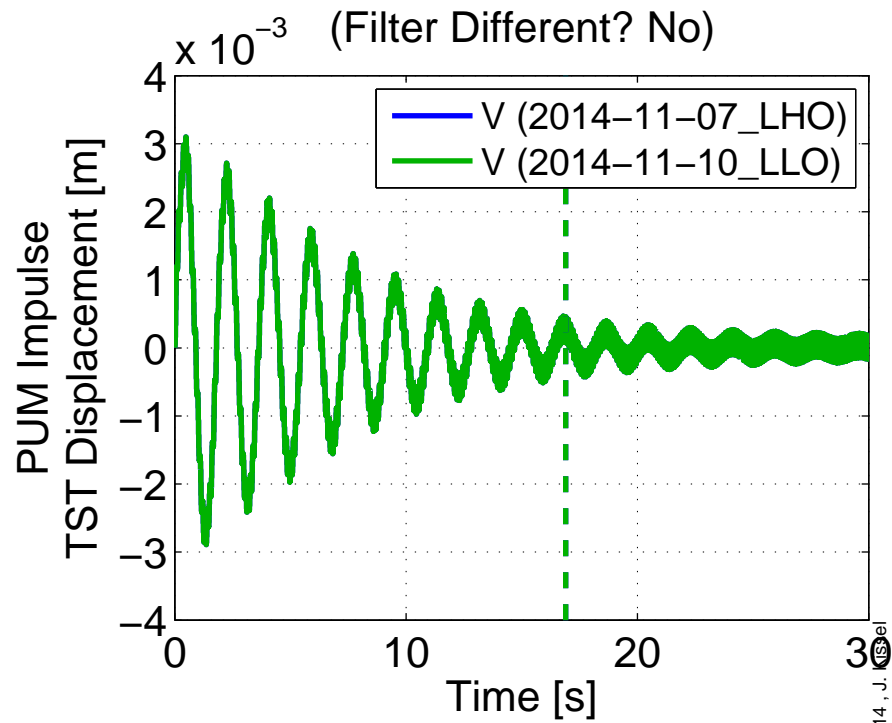
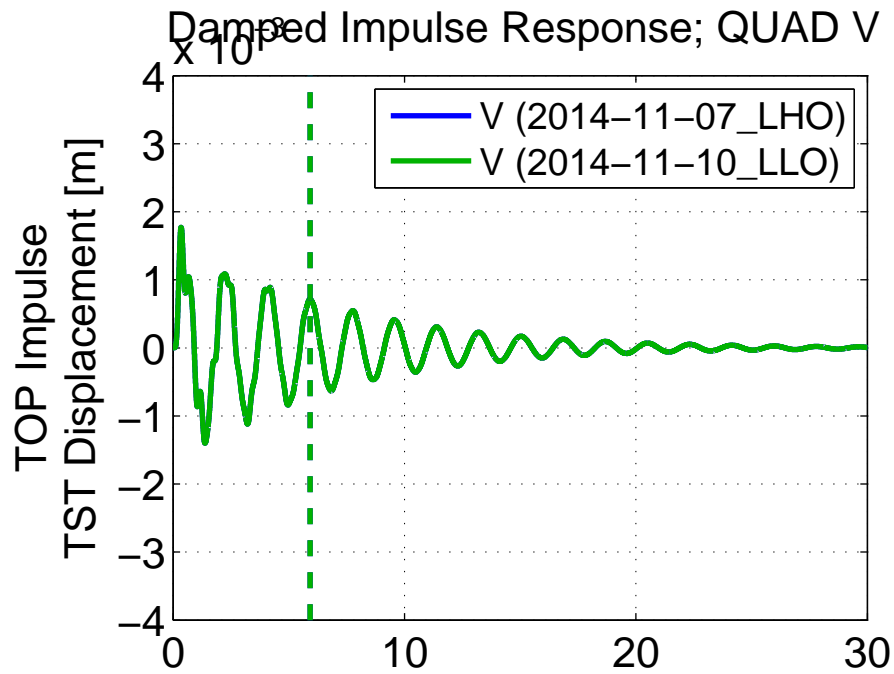
# Damping Loop Design Comparison QUAD V (Filter Different? No)



First LUGF [o,^s] : [LHO, LLO] : [72.1, 72.1] [deg]

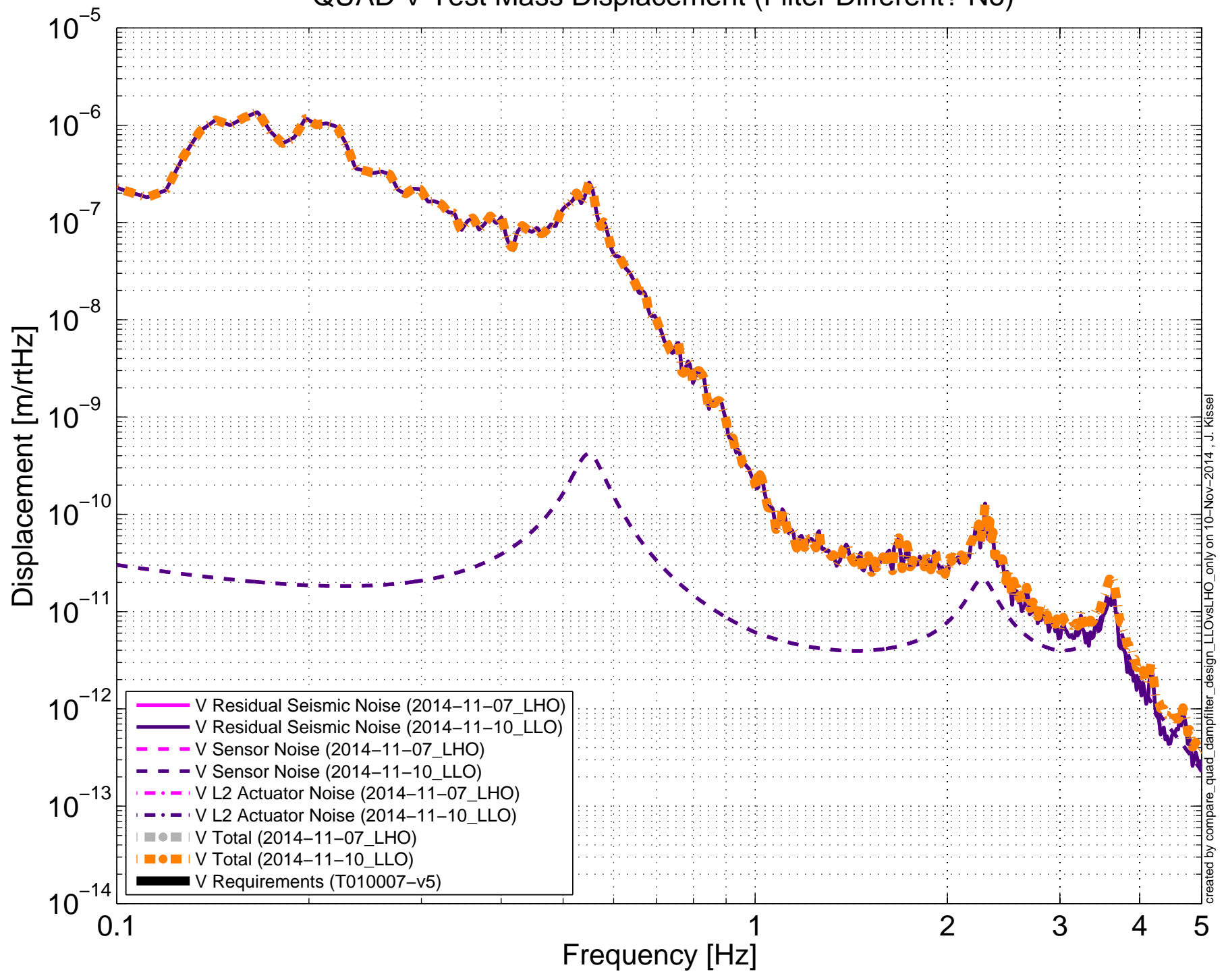
Last UUGF [o,^s] : [LHO, LLO] : [44.6, 44.6] [deg]





# Damping Loop Performance Comparison

## QUAD V Test Mass Displacement (Filter Different? No)

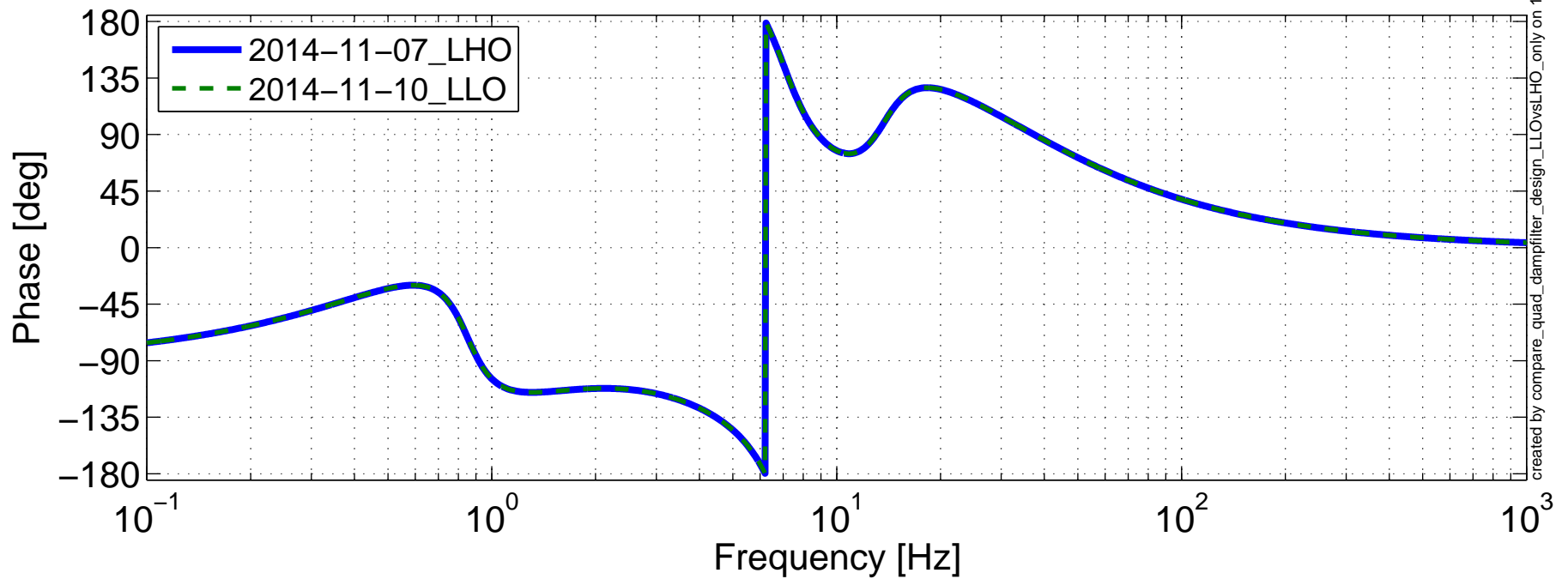
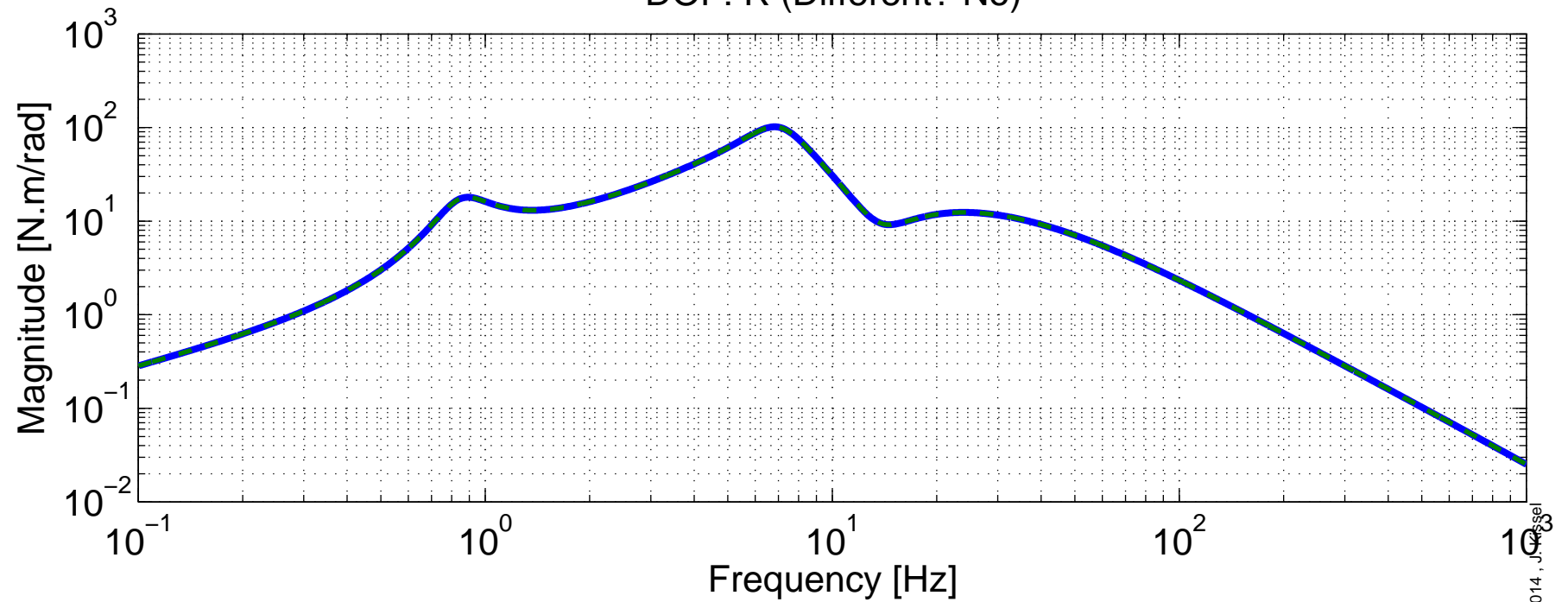


created by compare\_quad\_dampfilter\_design\_LLOvsLHO\_only on 10-Nov-2014, J. Kissel

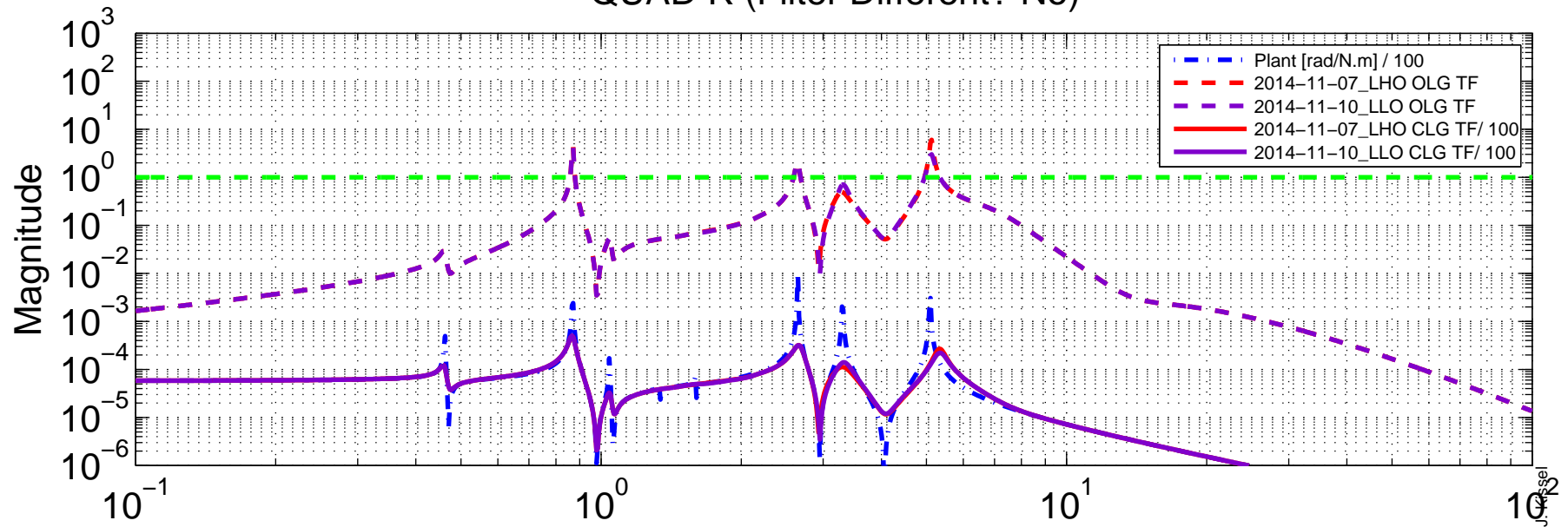


# Calibrated Damping Filter Comparison

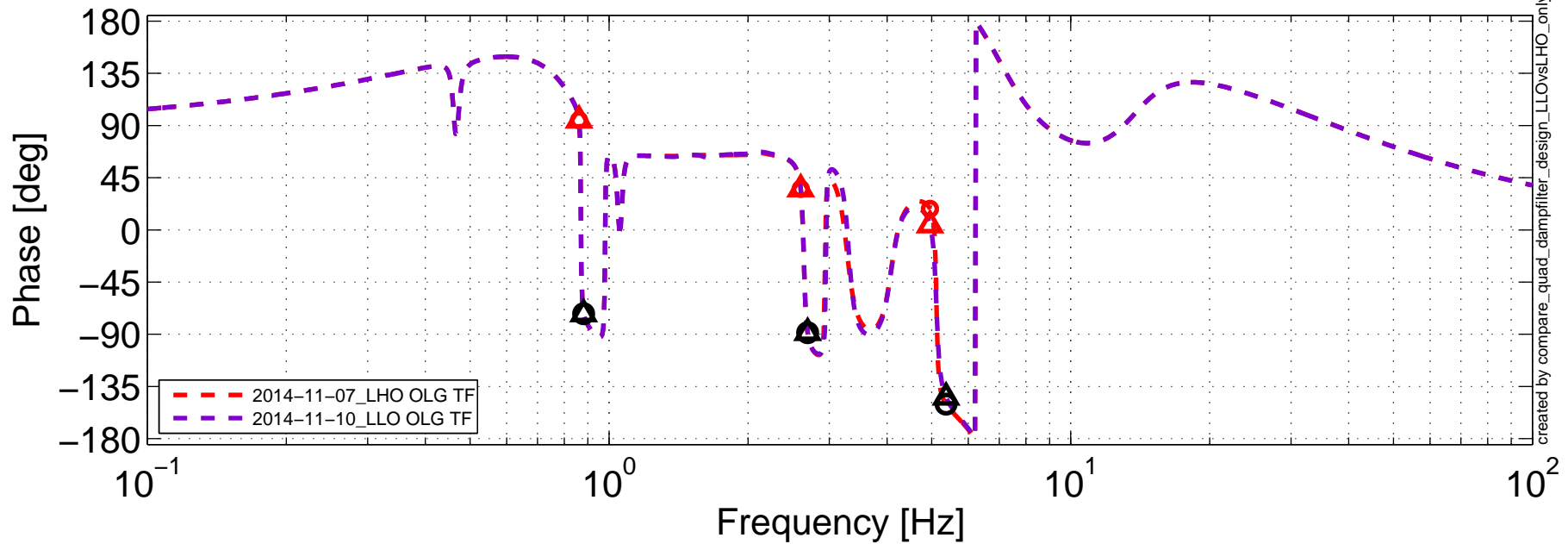
DOF: R (Different? No)



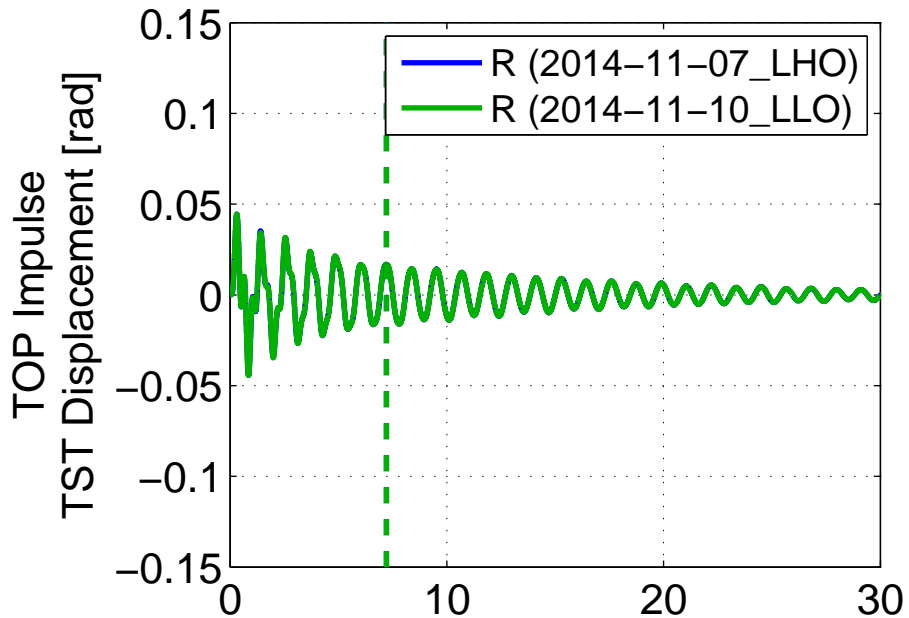
# Damping Loop Design Comparison QUAD R (Filter Different? No)



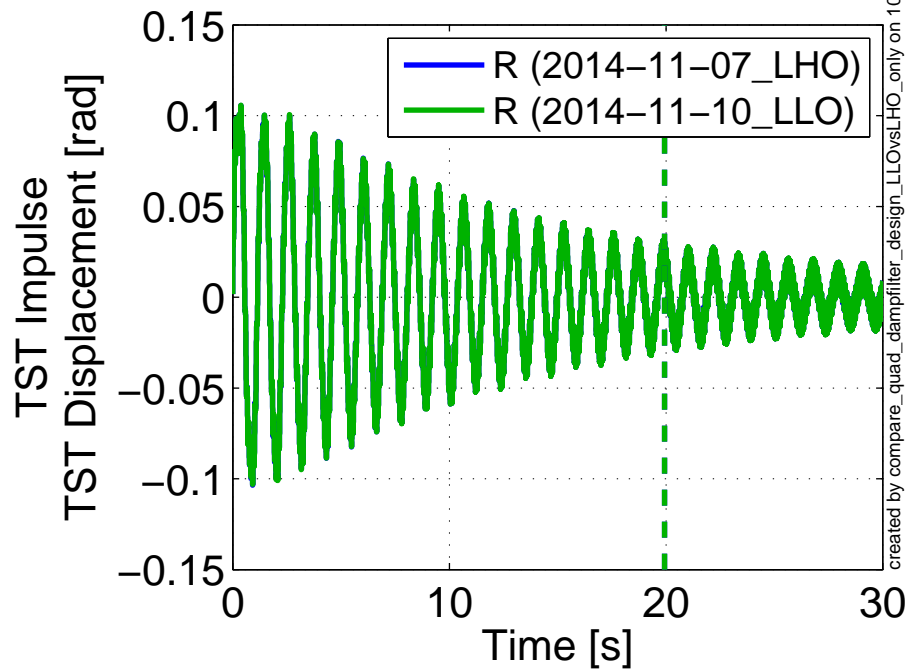
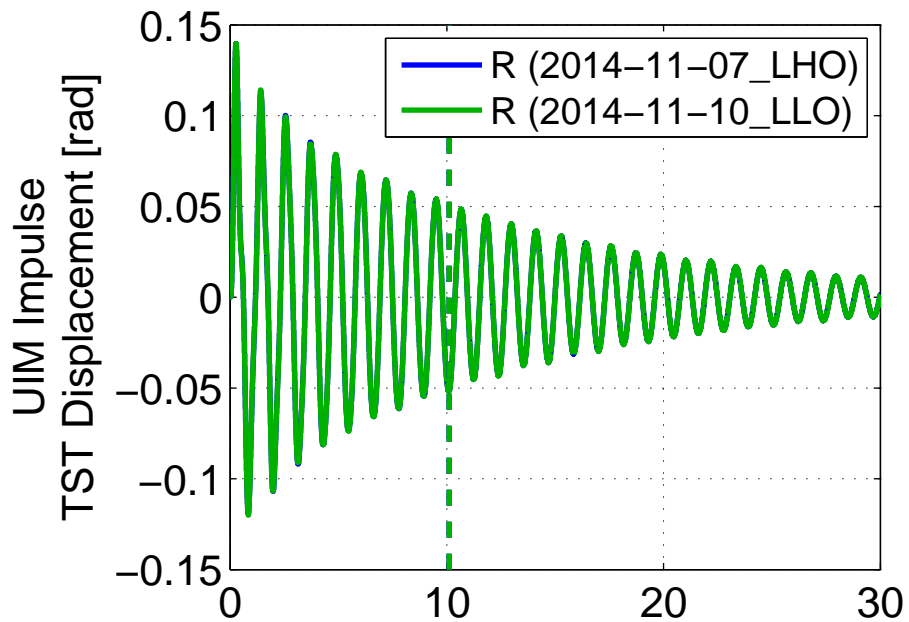
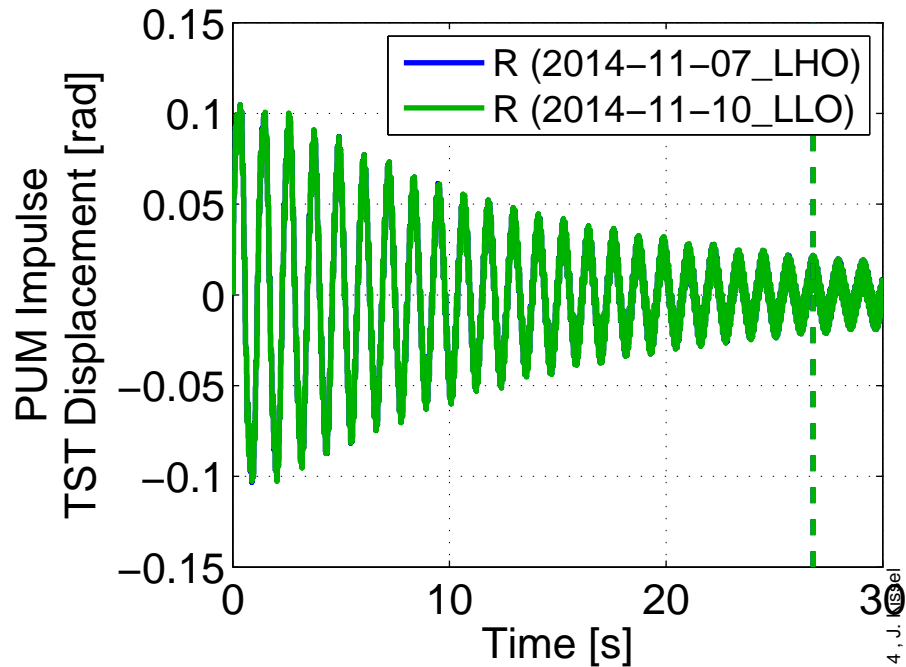
First LUGF [o,^s] : [LHO, LLO] : [85.5, 85.5] [deg]  
 Last UUGF [o,^s] : [LHO, LLO] : [29.8, 35.6] [deg]



Damped Impulse Response; QUAD R

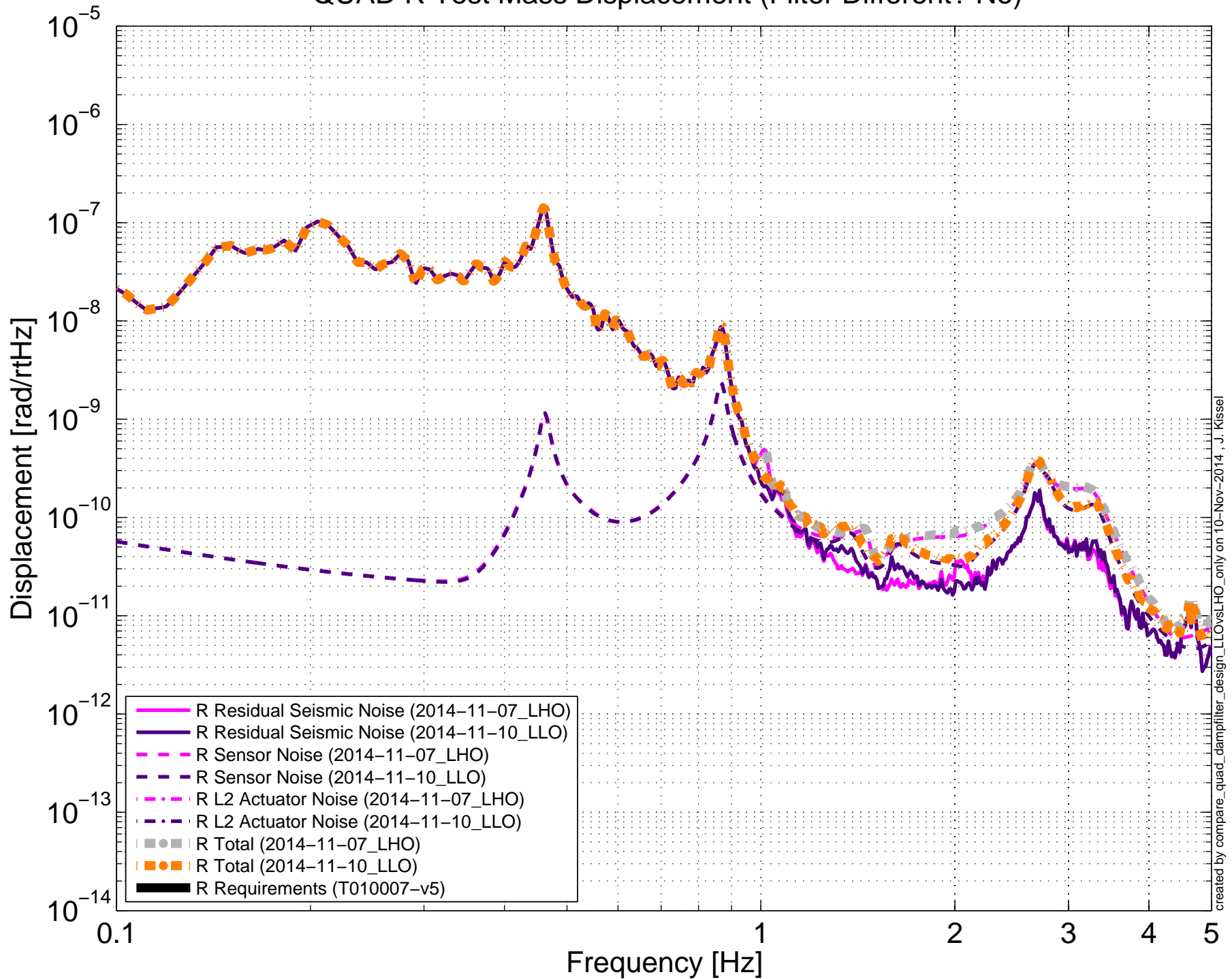


(Filter Different? No)



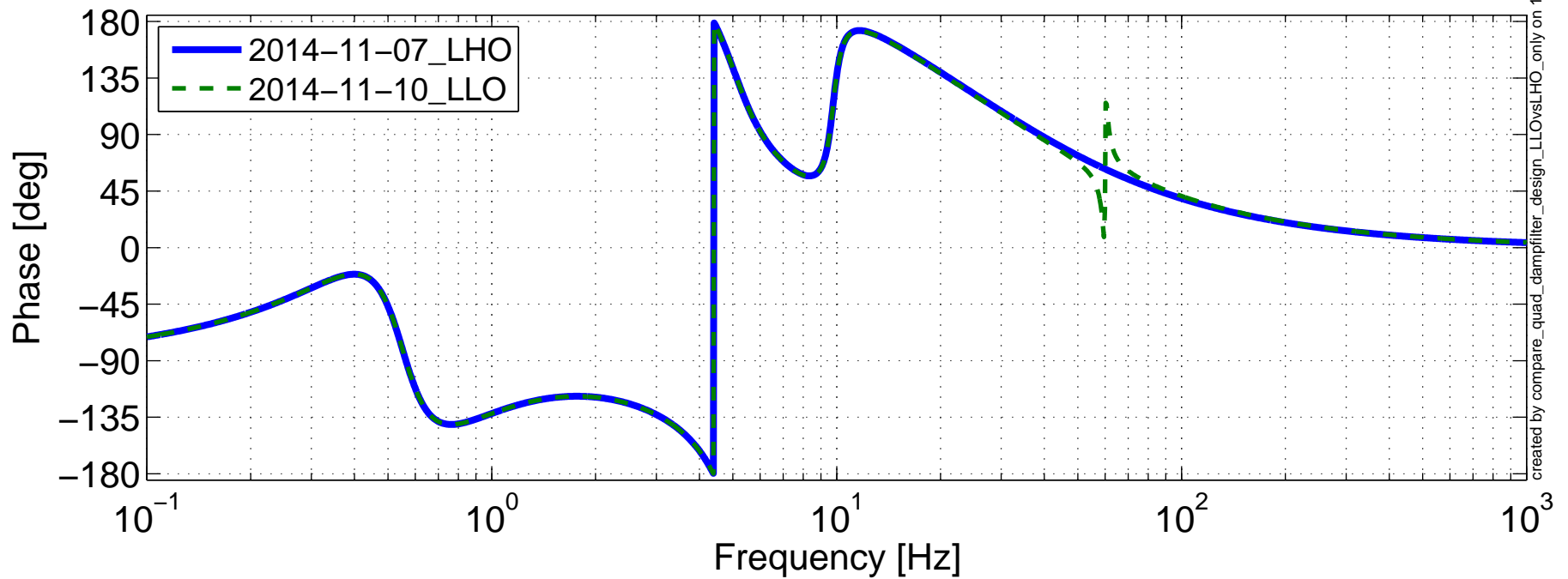
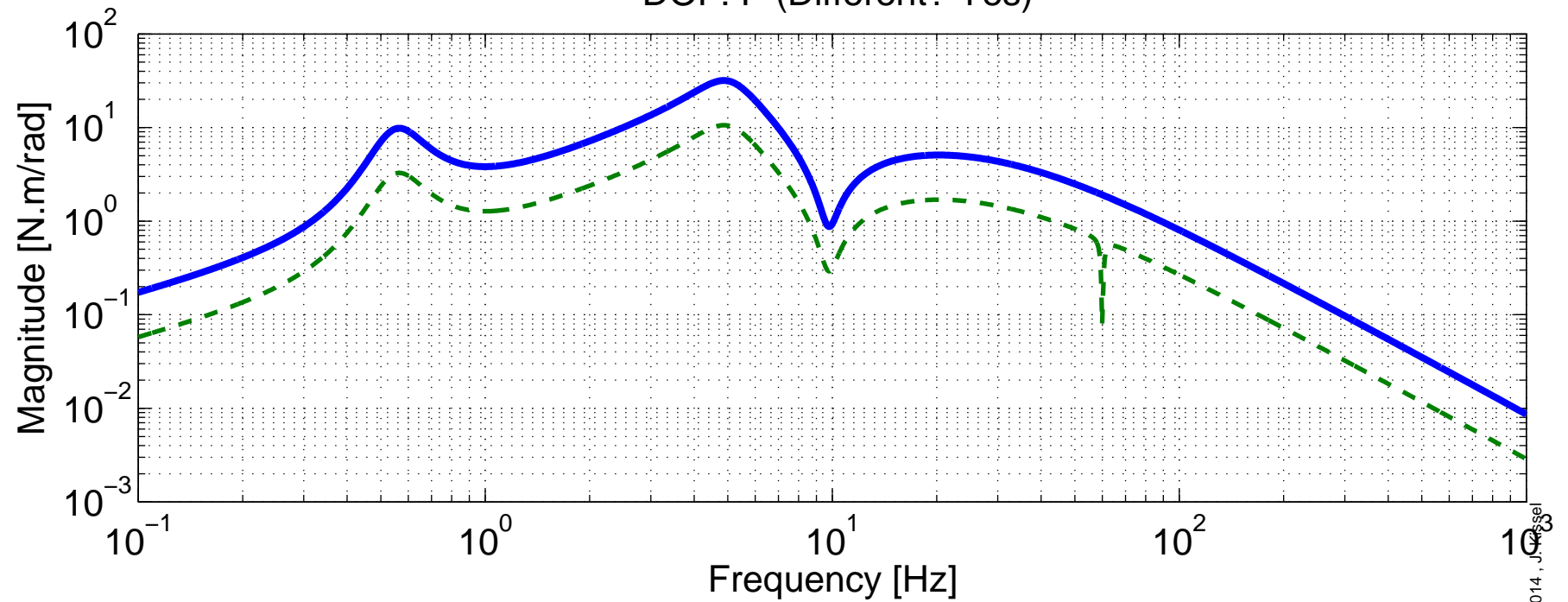
# Damping Loop Performance Comparison

## QUAD R Test Mass Displacement (Filter Different? No)

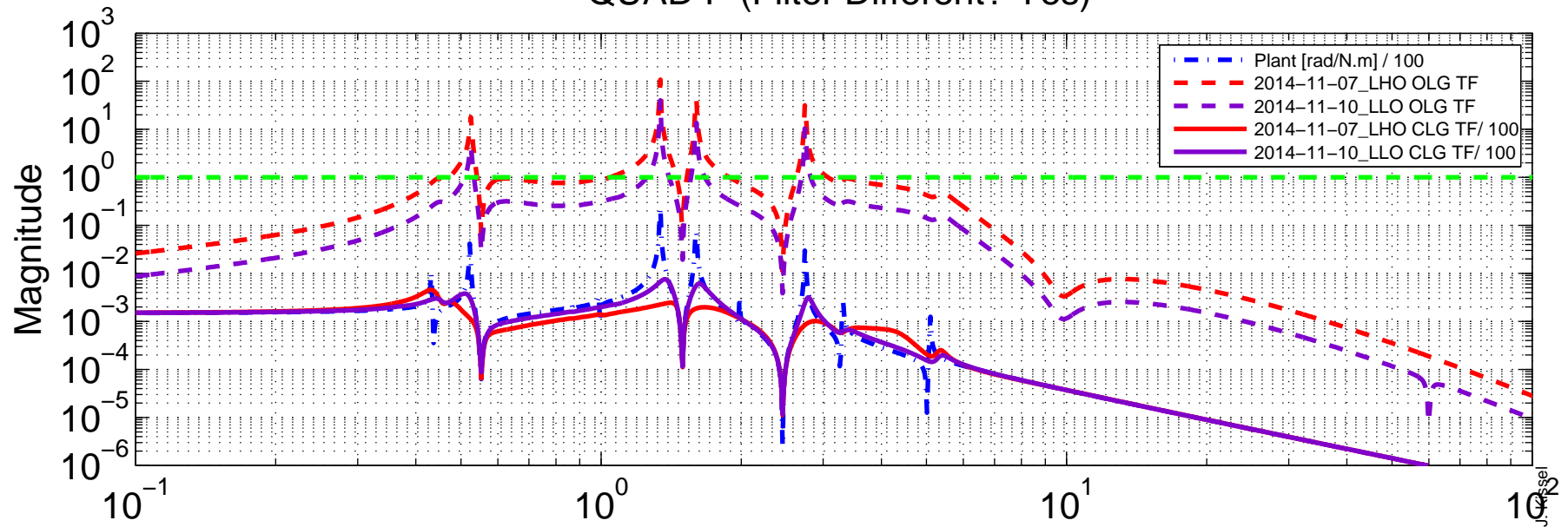


# Calibrated Damping Filter Comparison

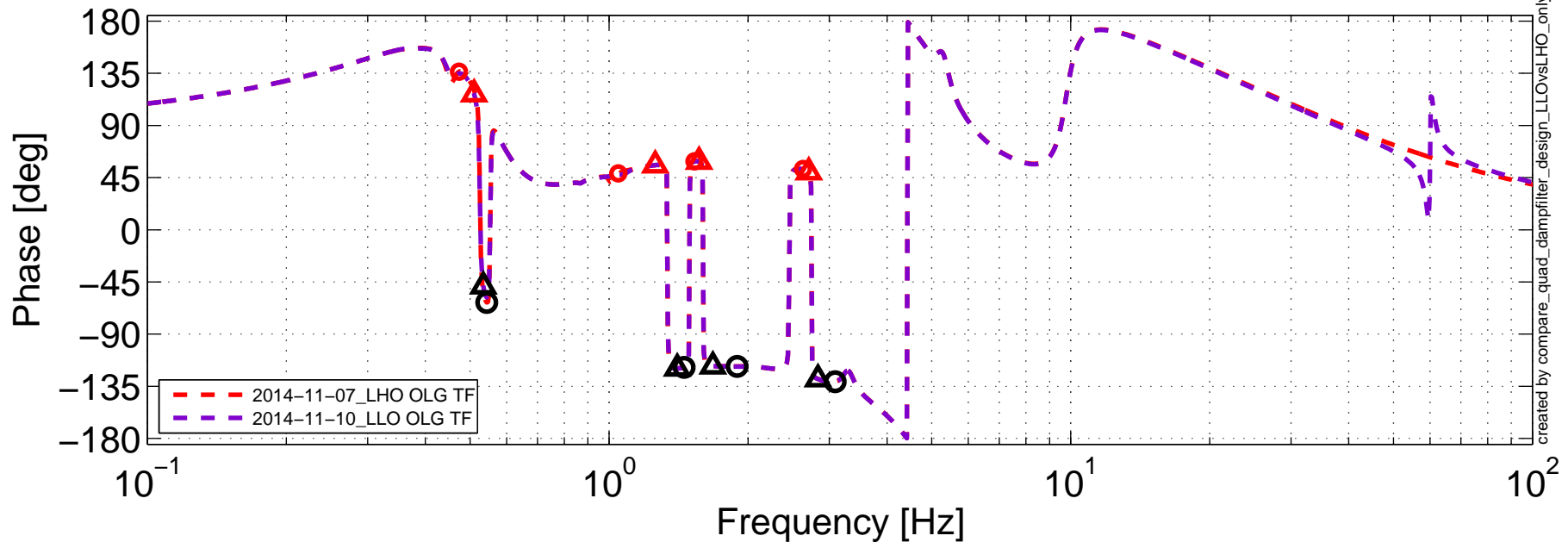
DOF: P (Different? Yes)



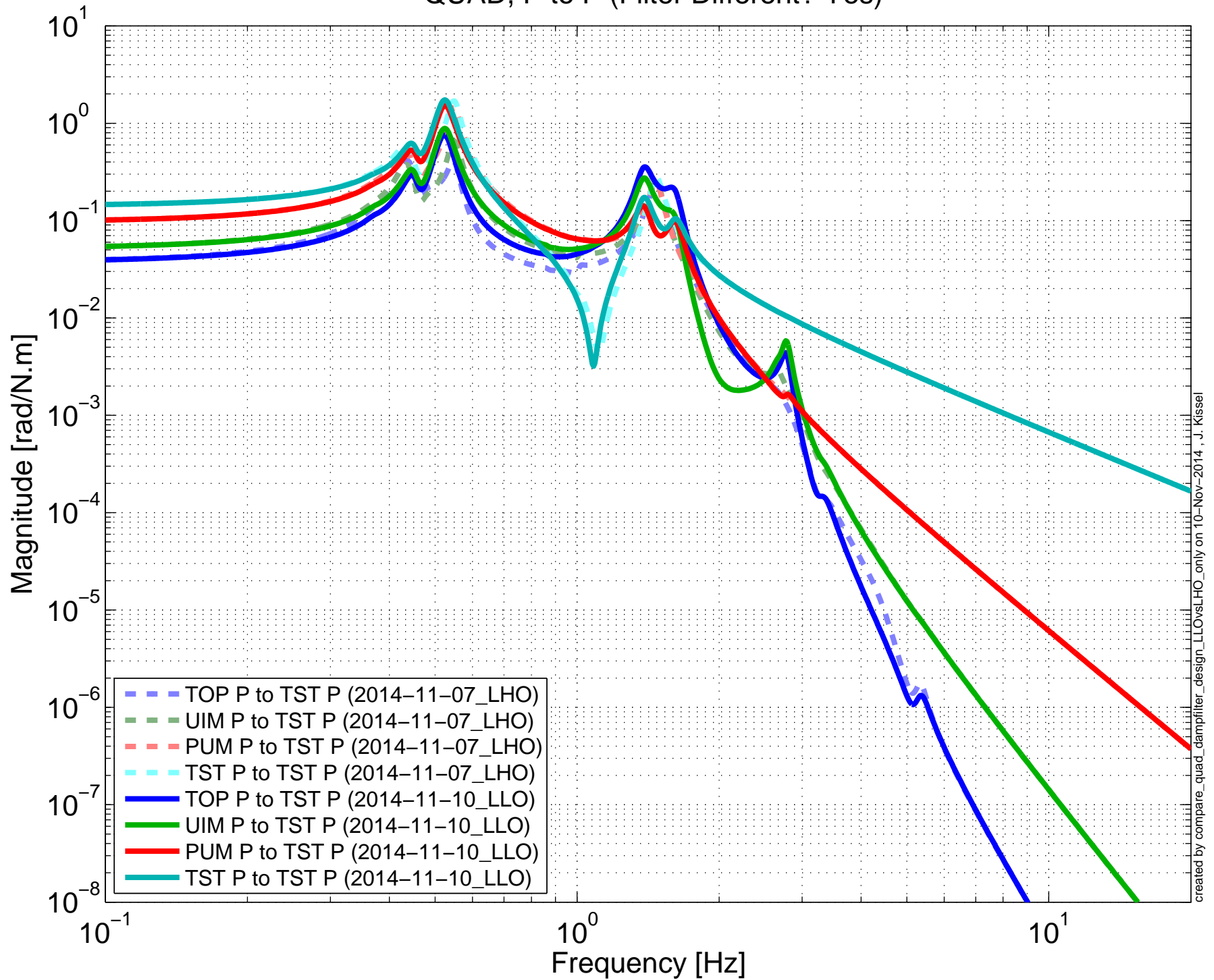
# Damping Loop Design Comparison QUAD P (Filter Different? Yes)



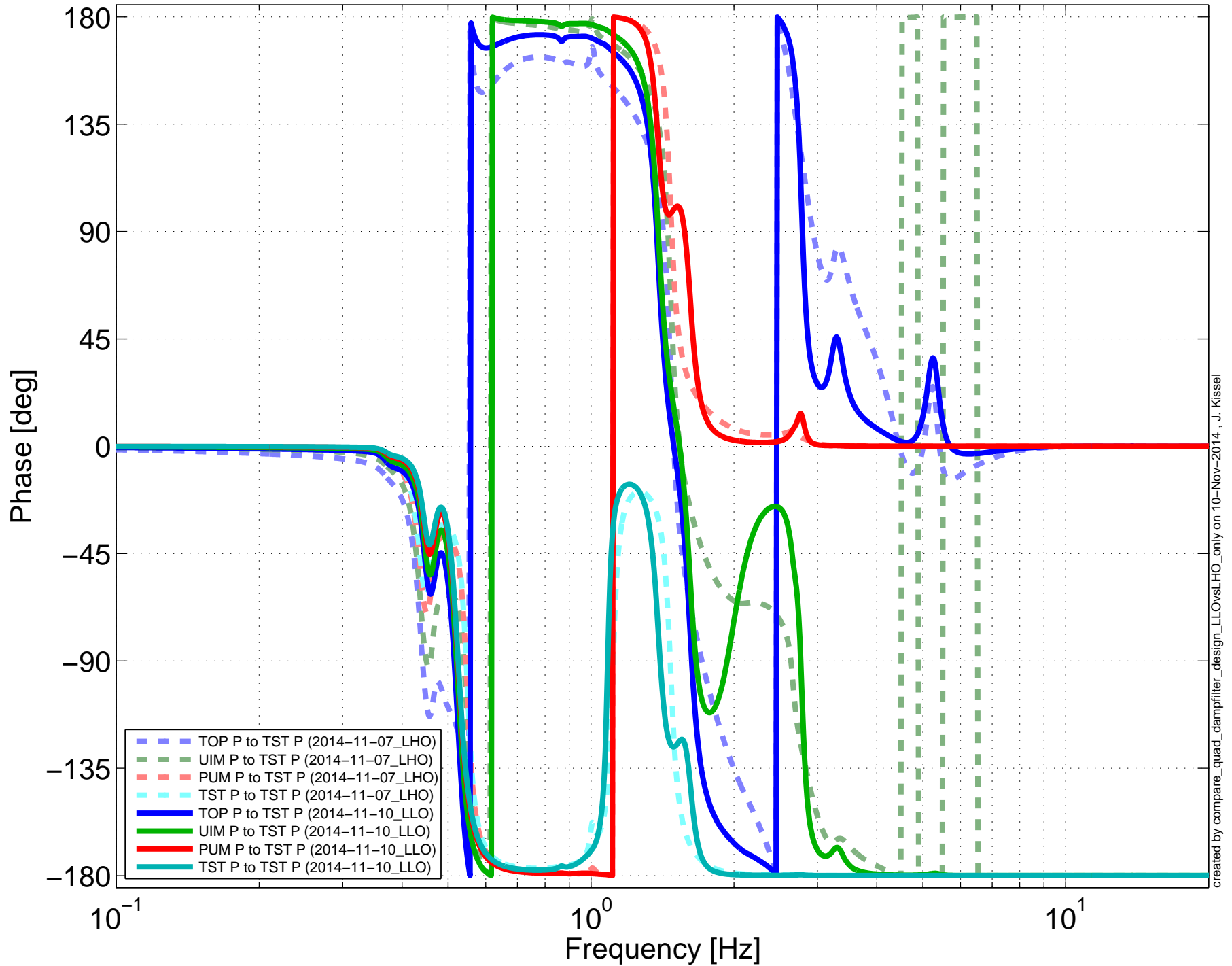
First LUGF [o,^s] : [LHO, LLO] : [43.6, 62.9] [deg]  
 Last UUGF [o,^s] : [LHO, LLO] : [49, 51.2] [deg]



# Global Control Transfer Functions to Optic QUAD, P to P (Filter Different? Yes)

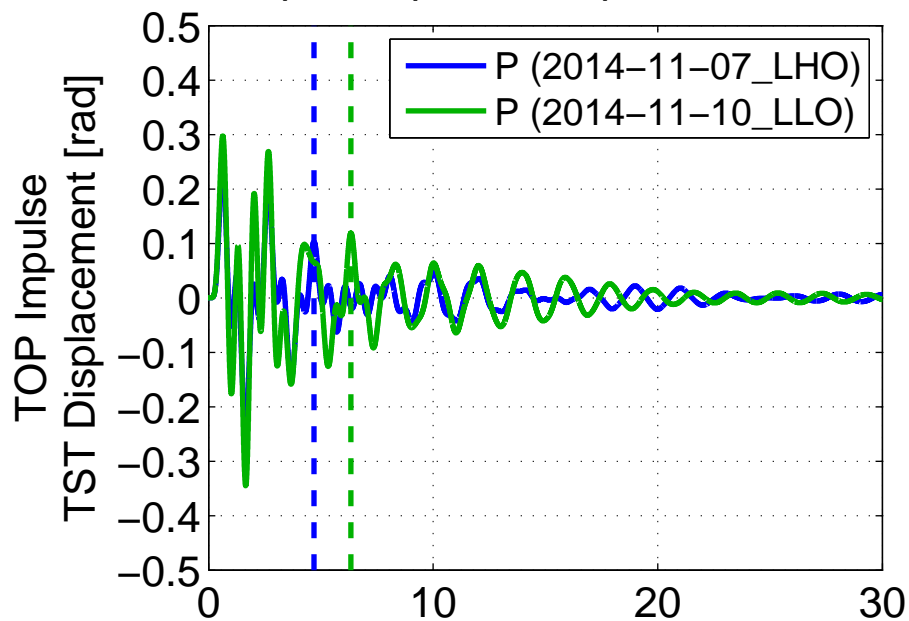


# Global Control Transfer Functions to Optic QUAD, P to P (Filter Different? Yes)

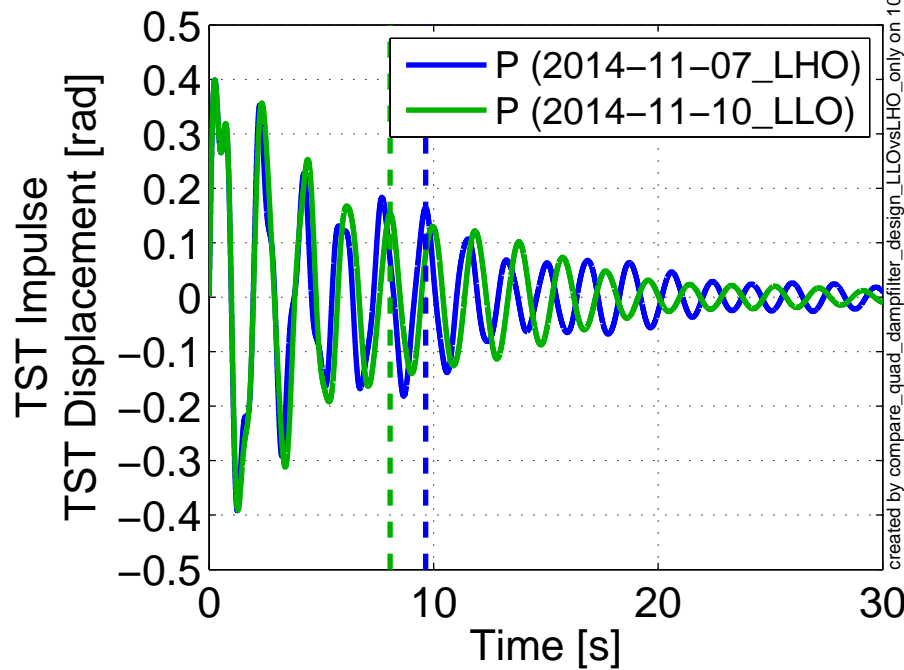
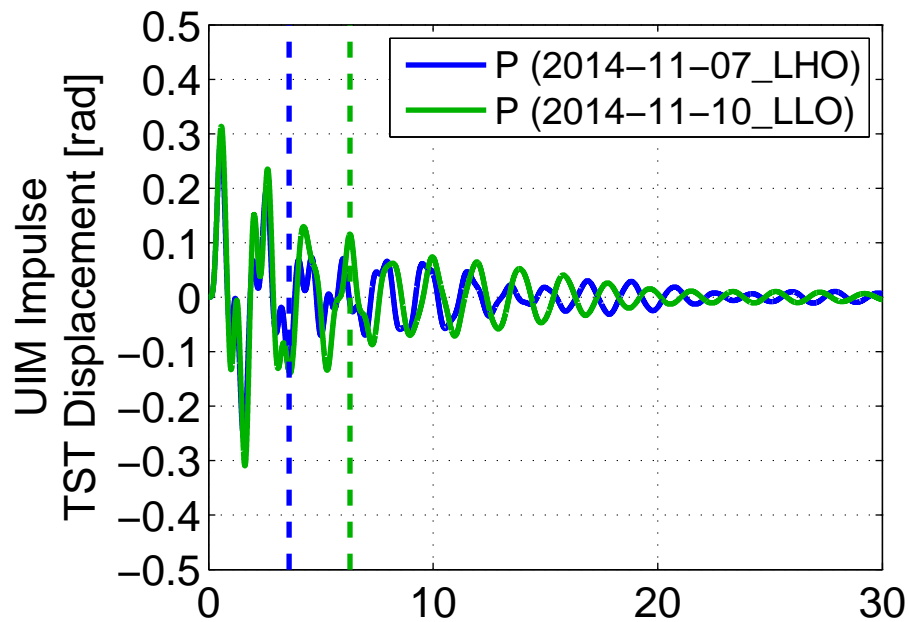
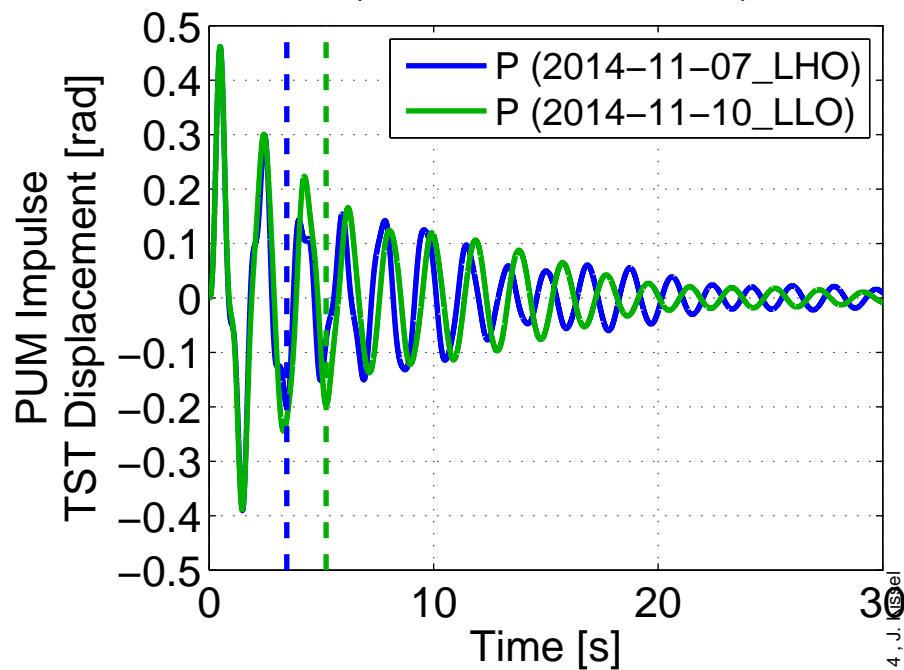




Damped Impulse Response; QUAD P

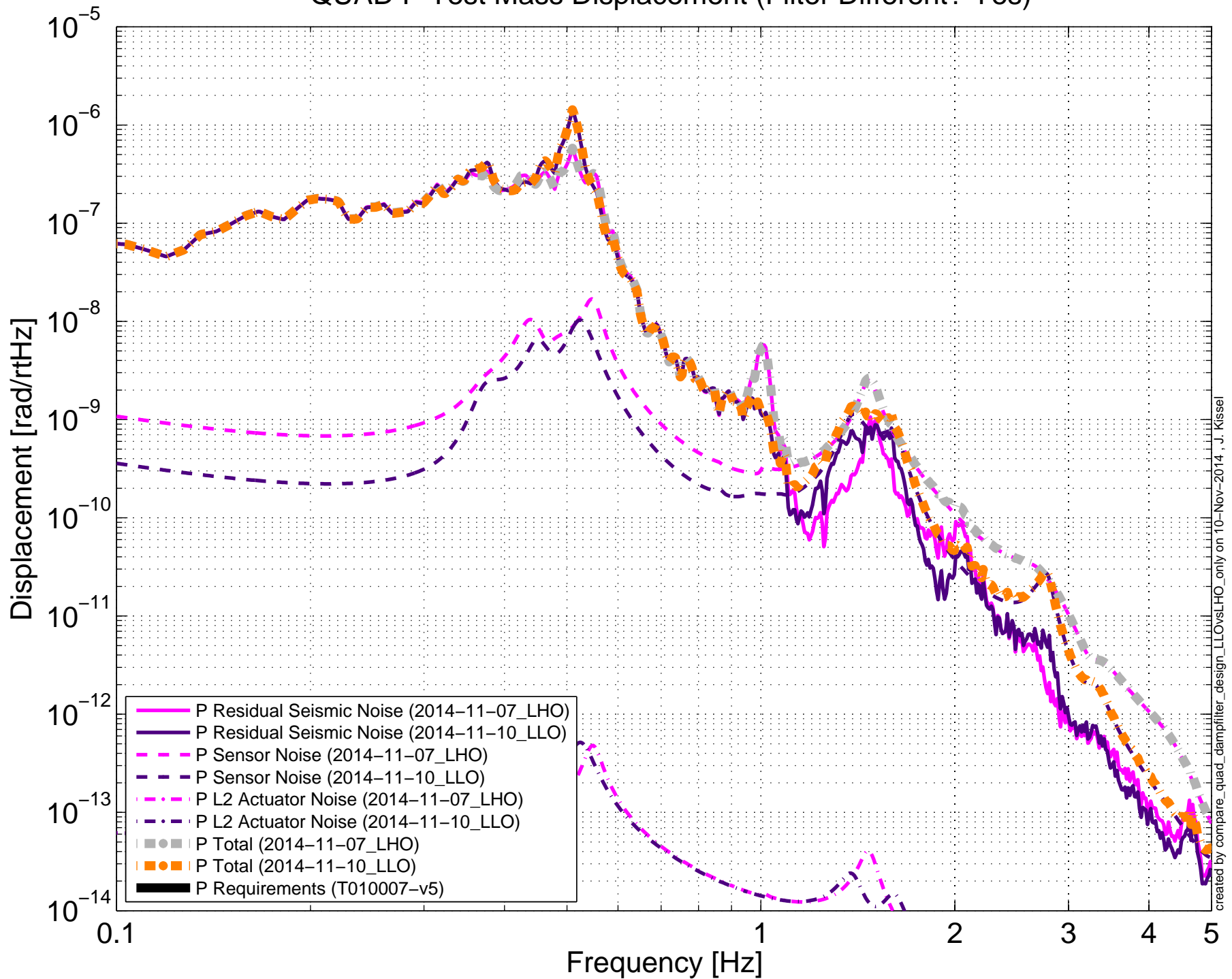


(Filter Different? Yes)



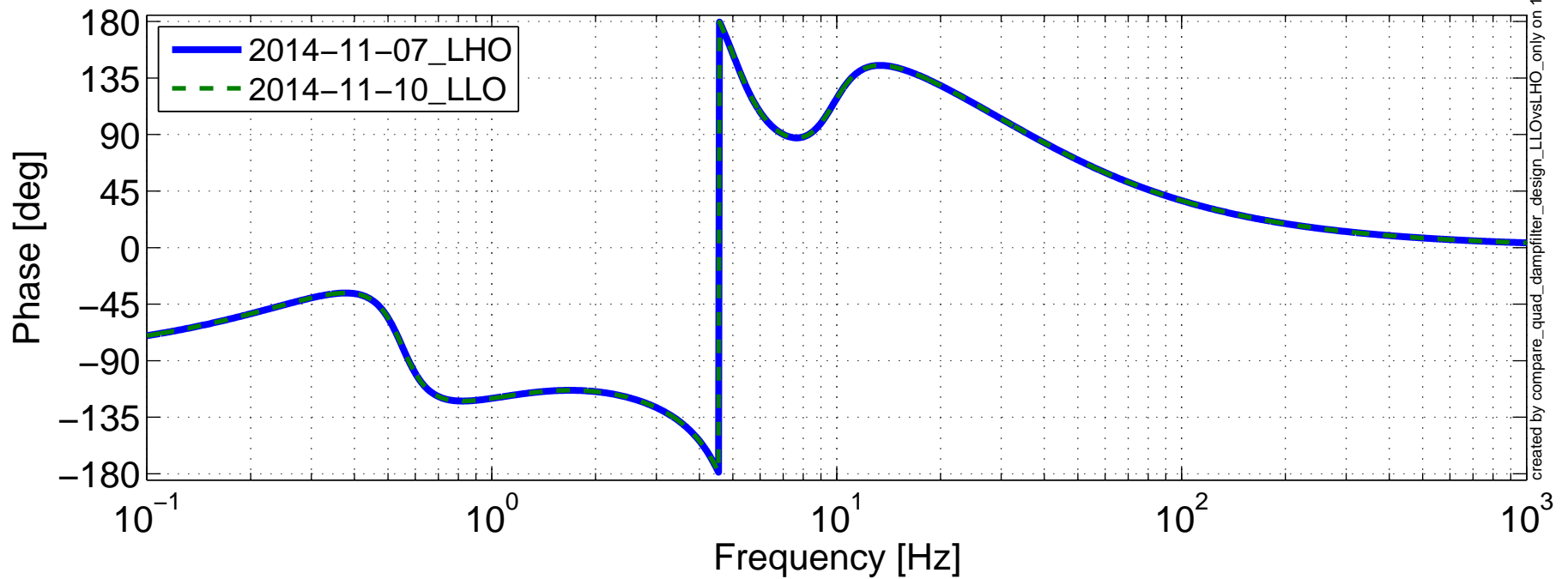
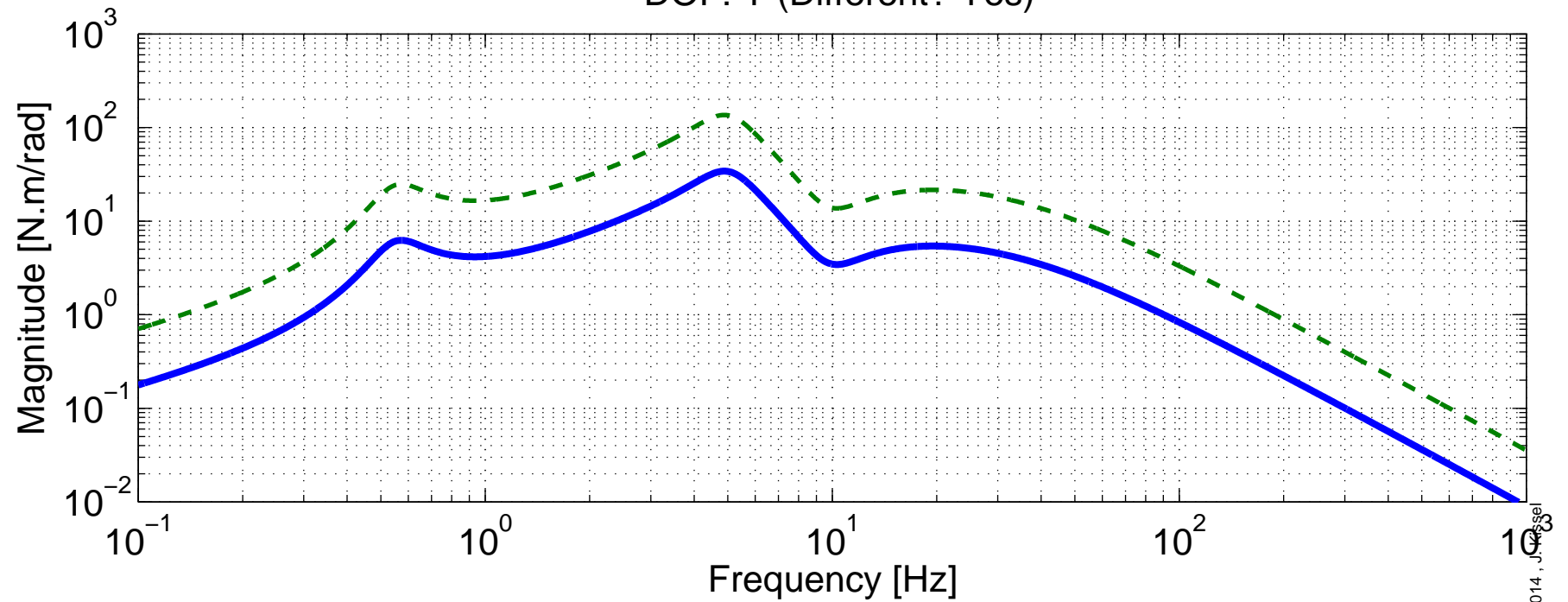
# Damping Loop Performance Comparison

## QUAD P Test Mass Displacement (Filter Different? Yes)

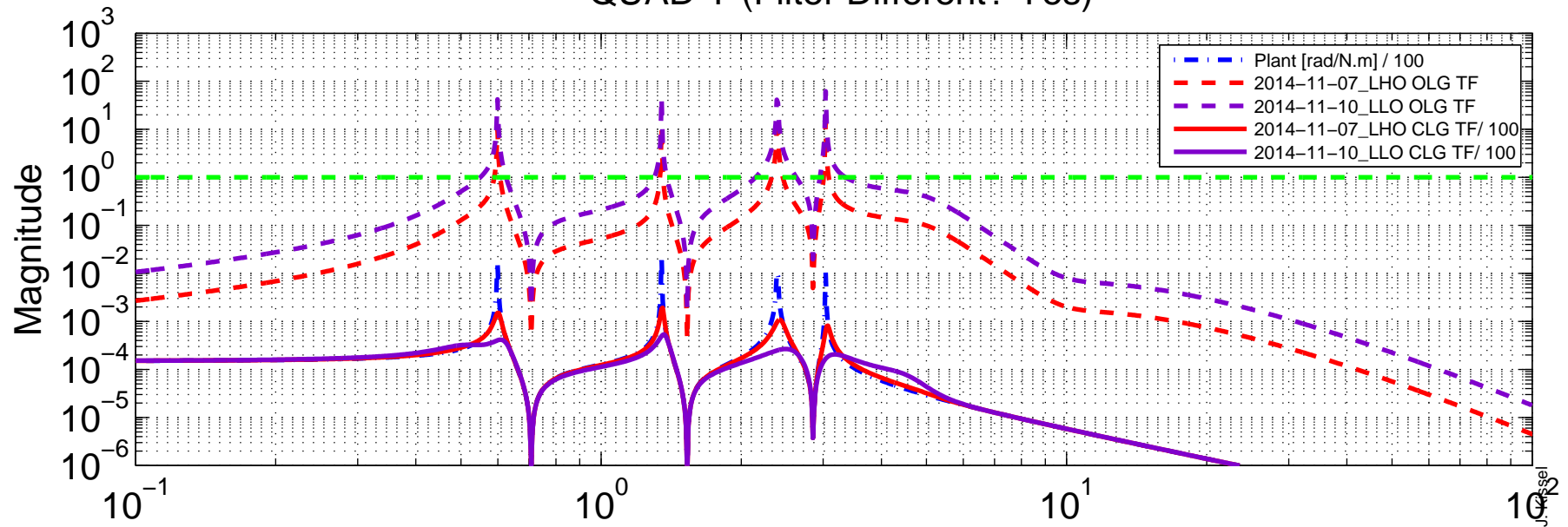


# Calibrated Damping Filter Comparison

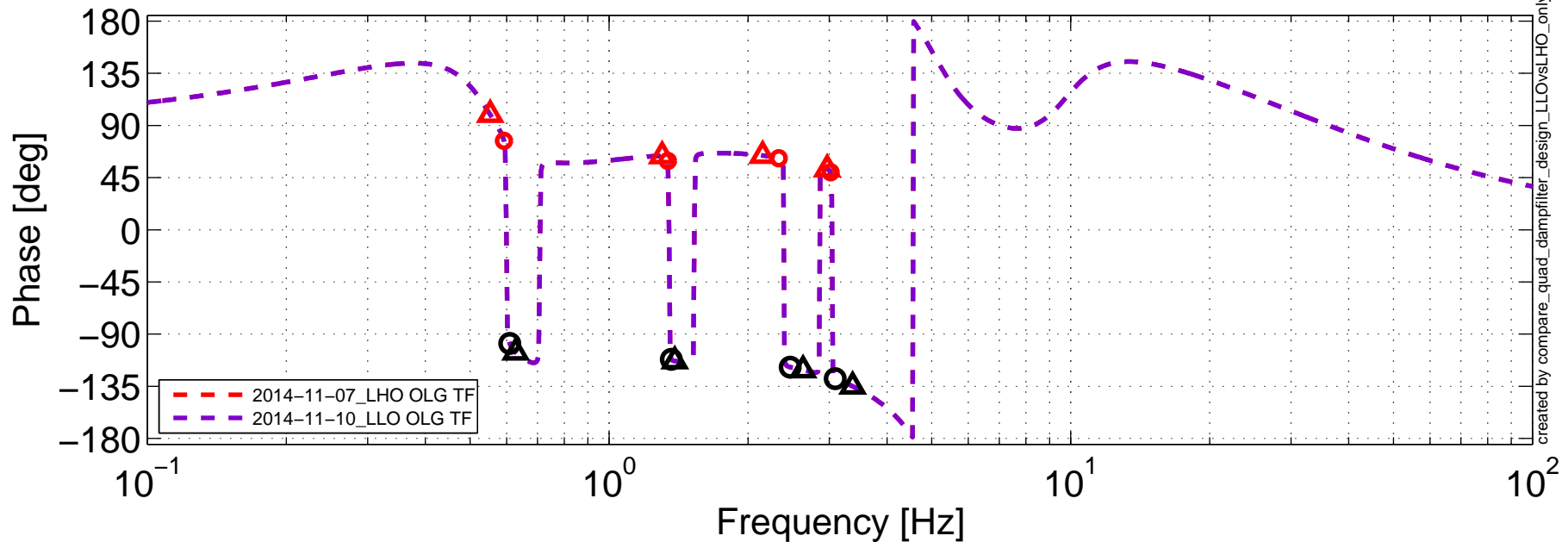
DOF: Y (Different? Yes)



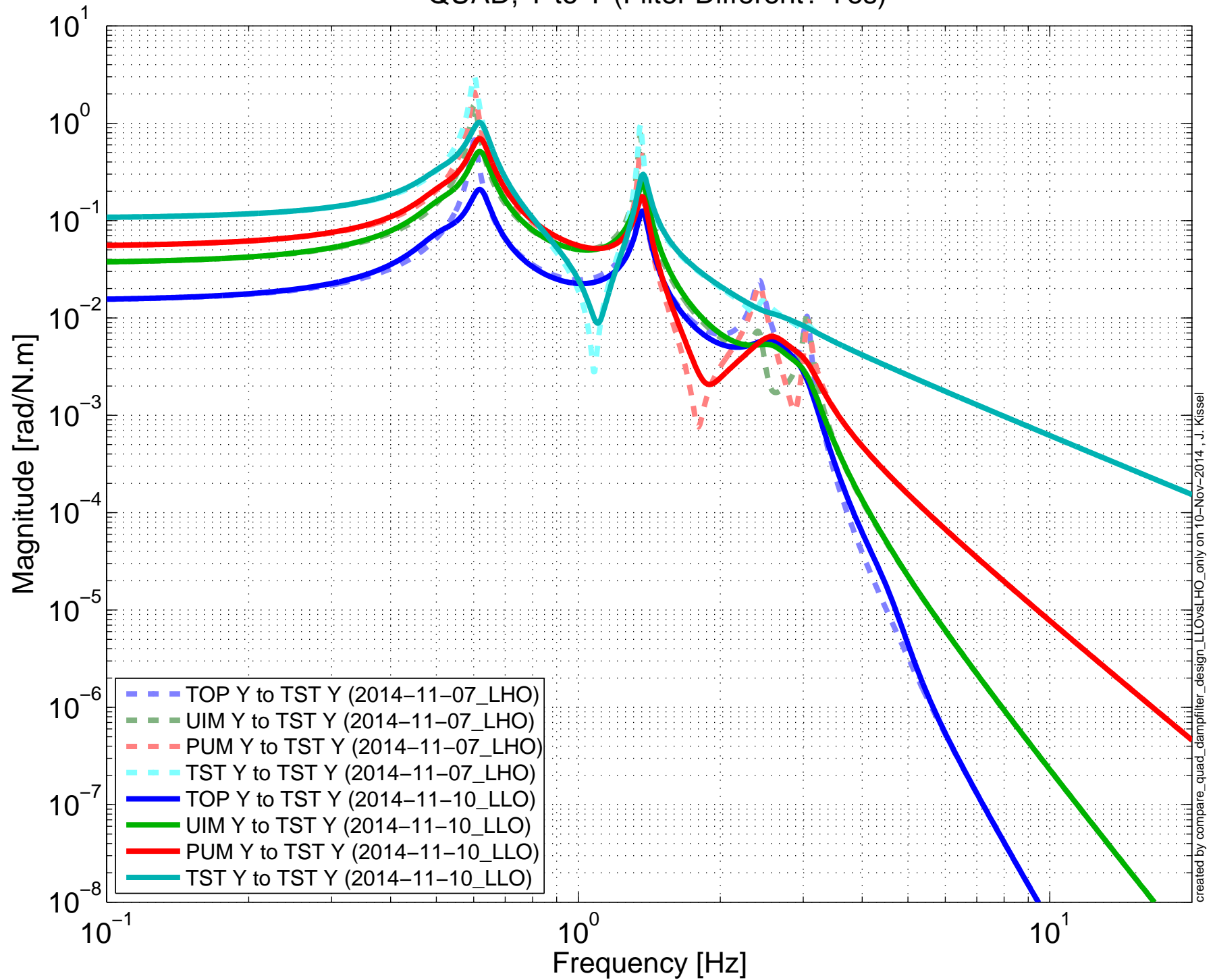
# Damping Loop Design Comparison QUAD Y (Filter Different? Yes)



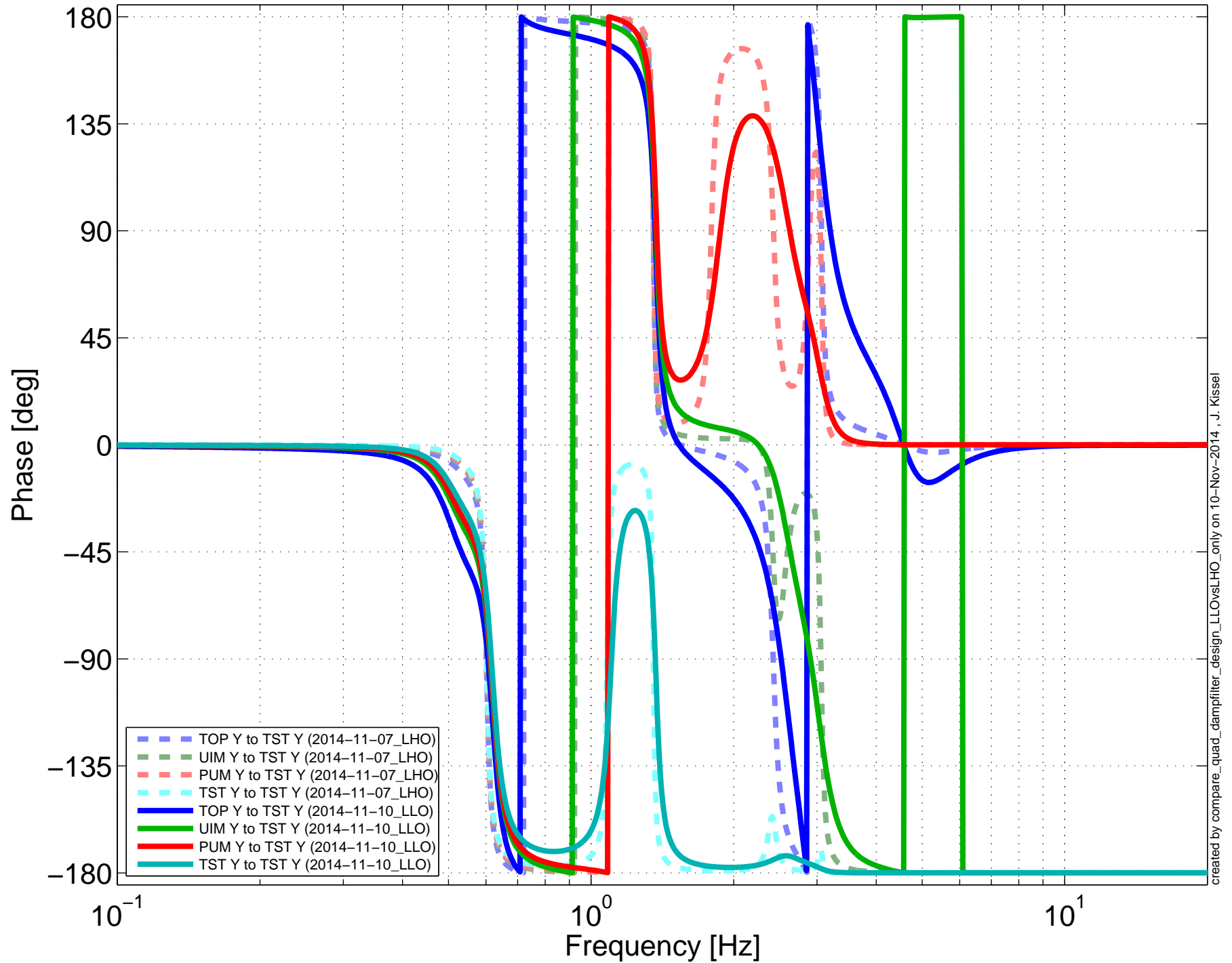
First LUGF [o,^s] : [LHO, LLO] : [103, 80.7] [deg]  
 Last UUGF [o,^s] : [LHO, LLO] : [51.7, 45] [deg]



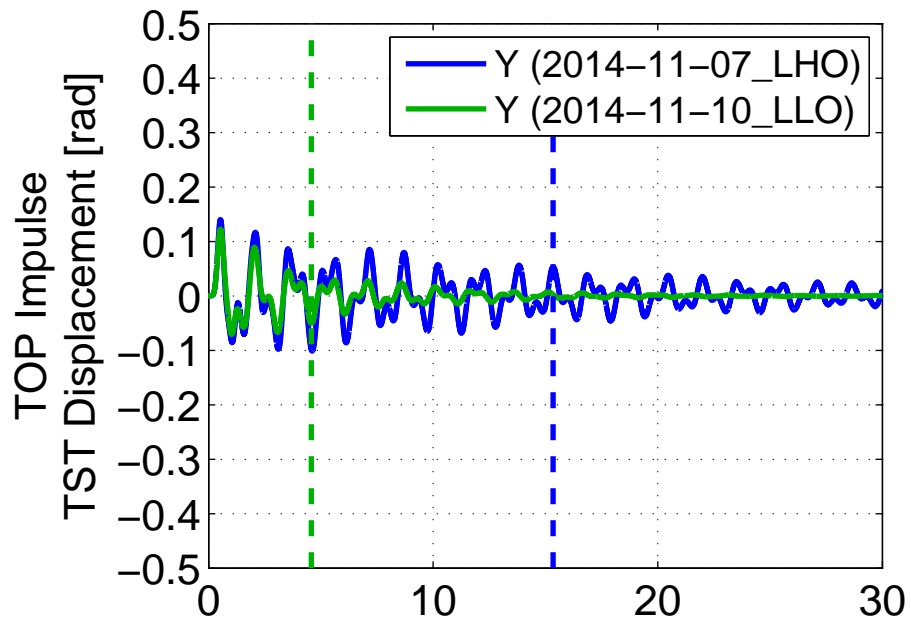
# Global Control Transfer Functions to Optic QUAD, Y to Y (Filter Different? Yes)



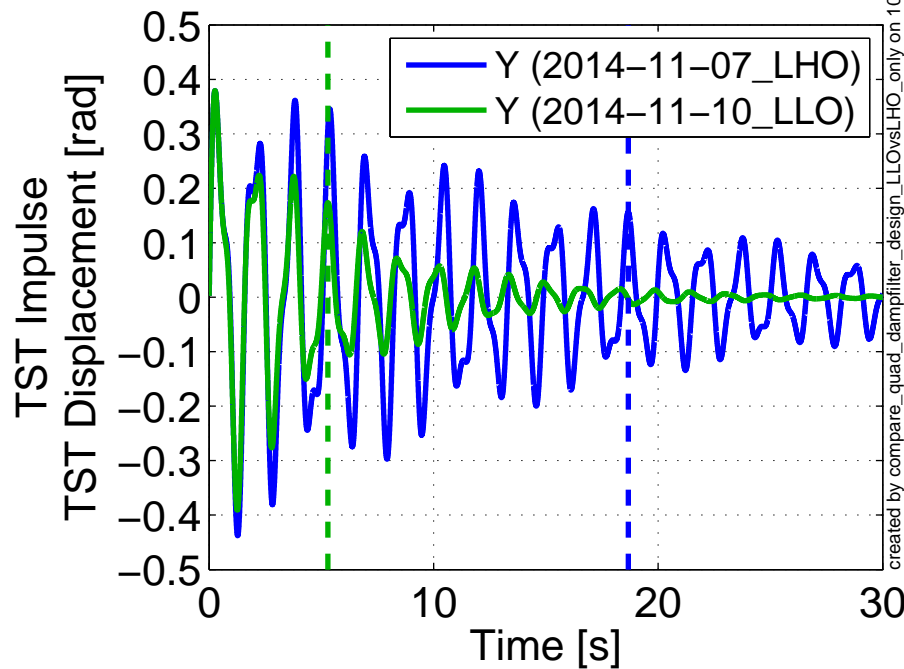
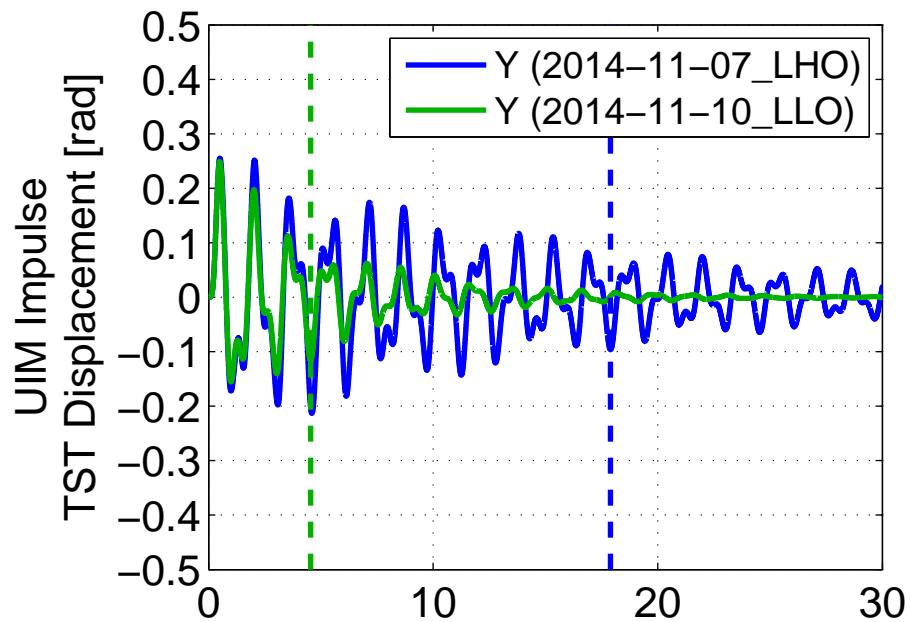
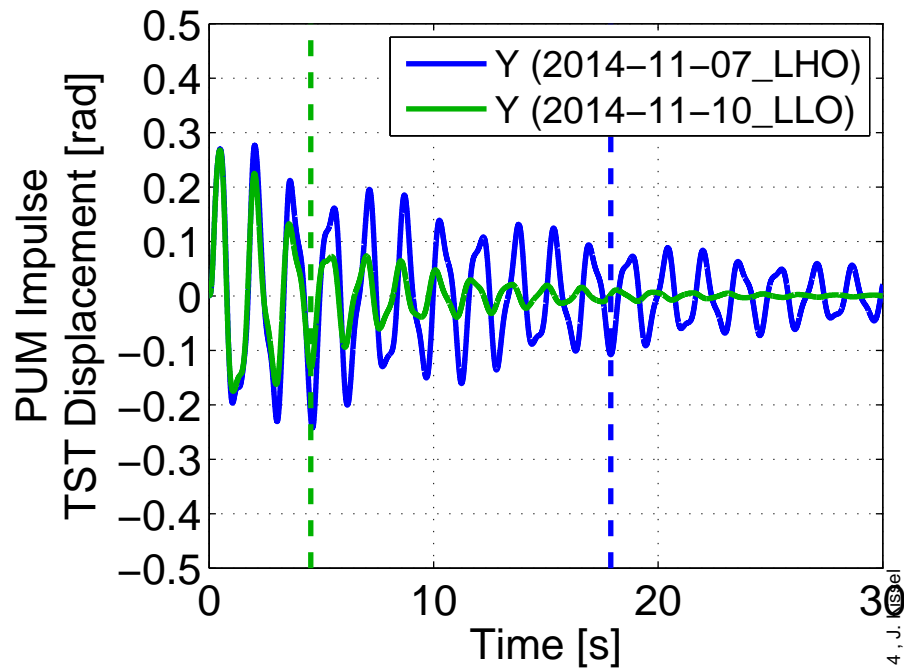
# Global Control Transfer Functions to Optic QUAD, Y to Y (Filter Different? Yes)



Damped Impulse Response; QUAD Y



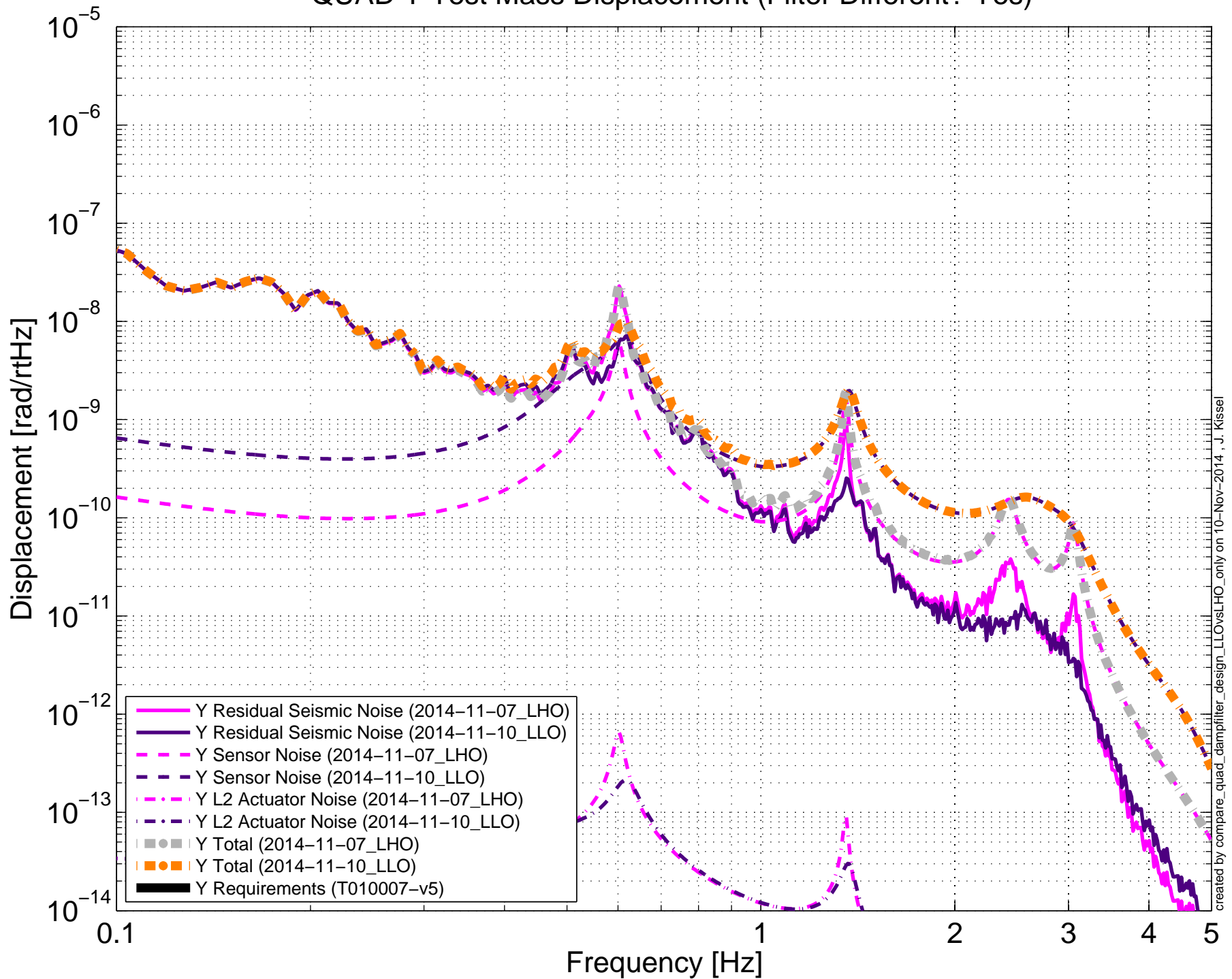
(Filter Different? Yes)



created by compare\_quad\_dampfilter\_design\_LLOvsLHO\_only on 10-Nov-2014, J. Ge...

# Damping Loop Performance Comparison

## QUAD Y Test Mass Displacement (Filter Different? Yes)





# Damping Loop Performance Comparison

## QUAD L Test Mass Displacement (Filter Different? Yes)

