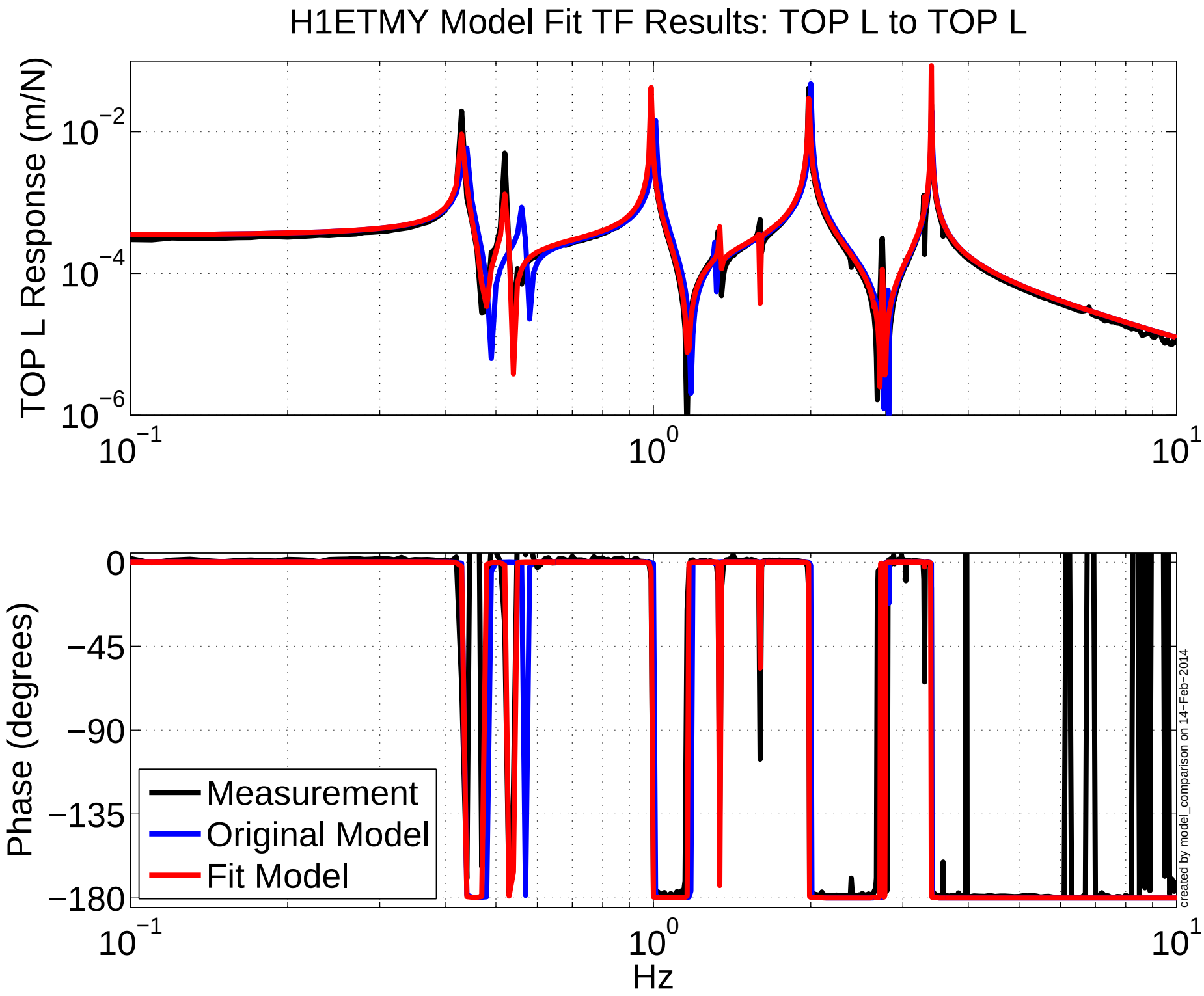
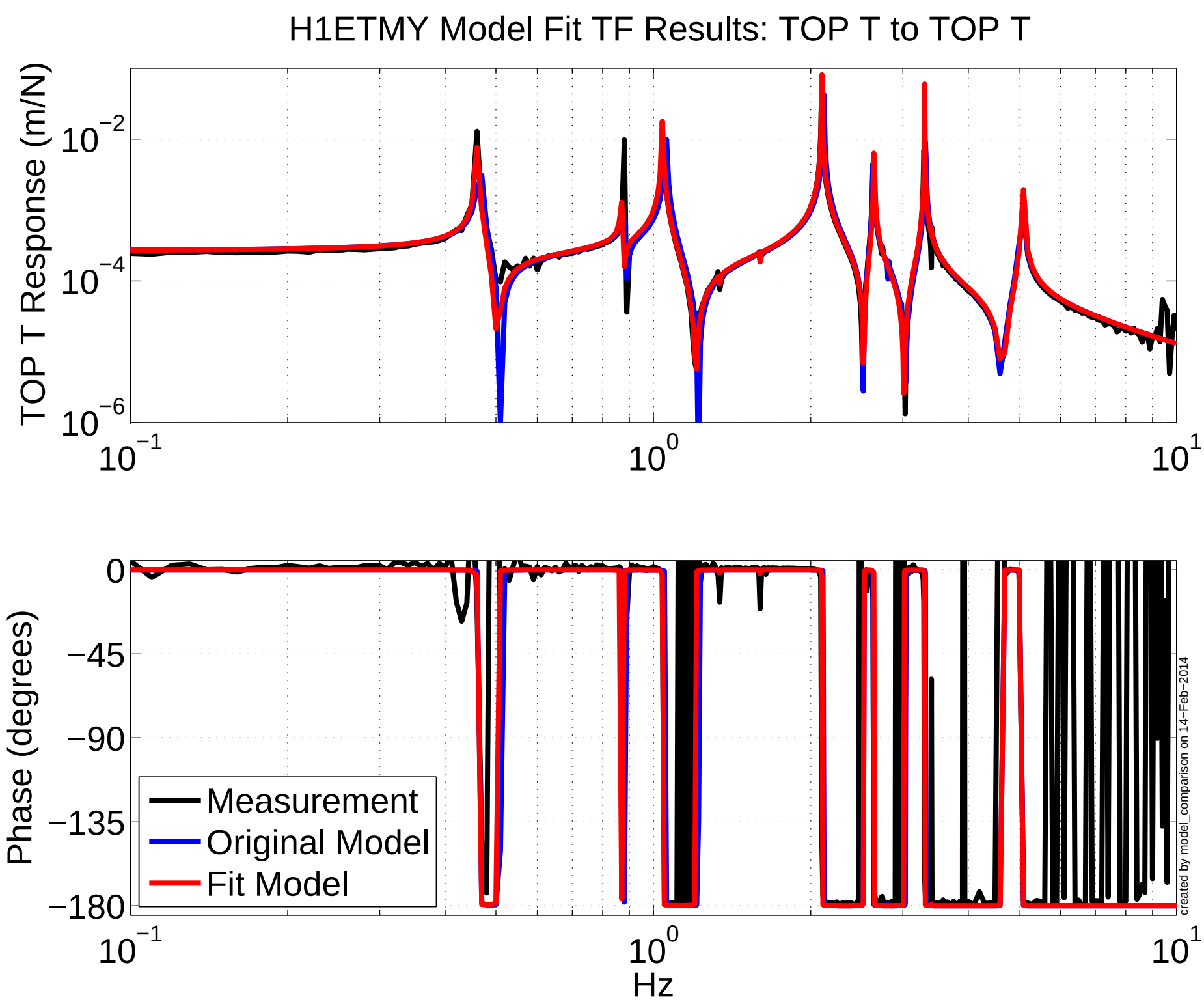
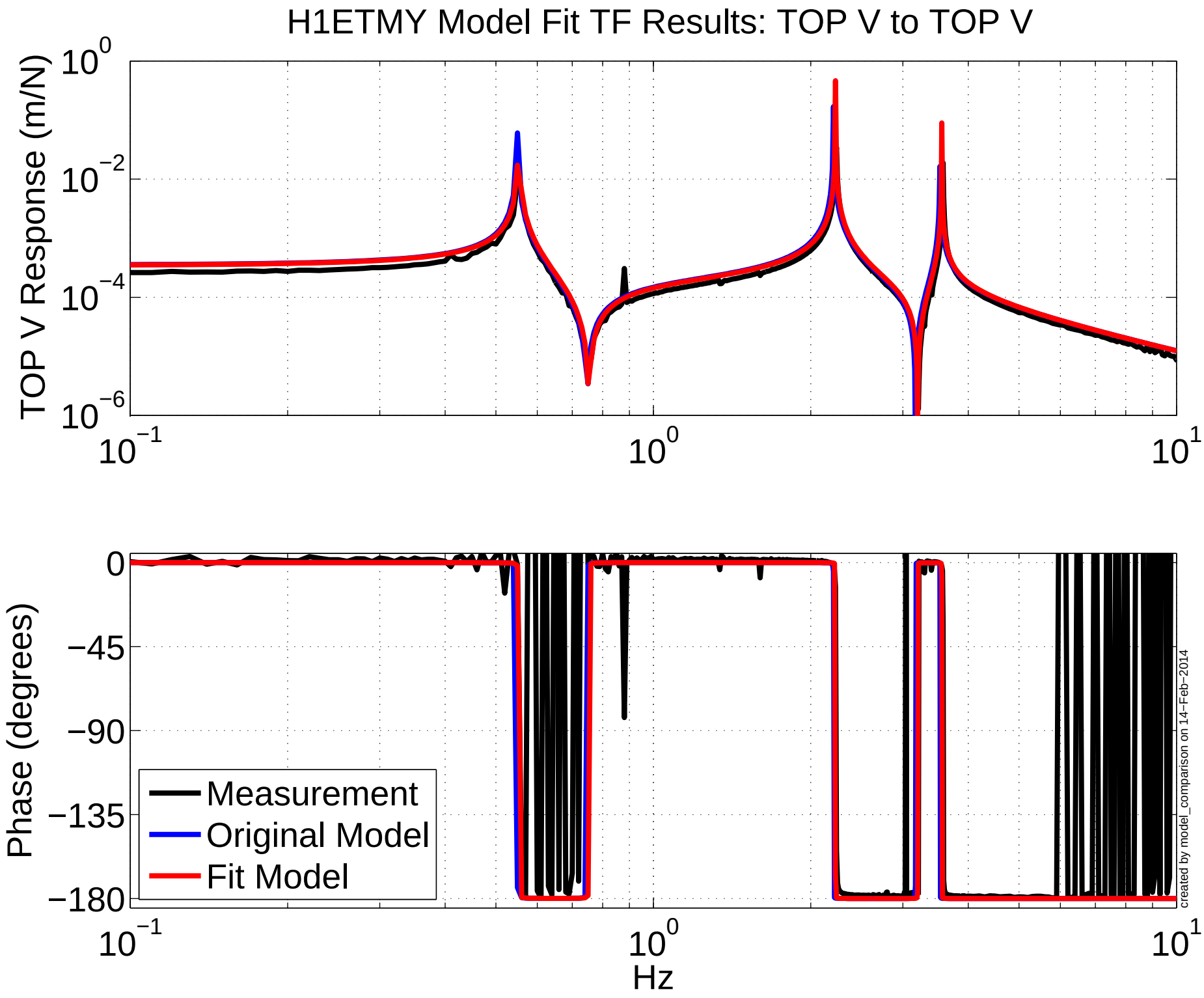
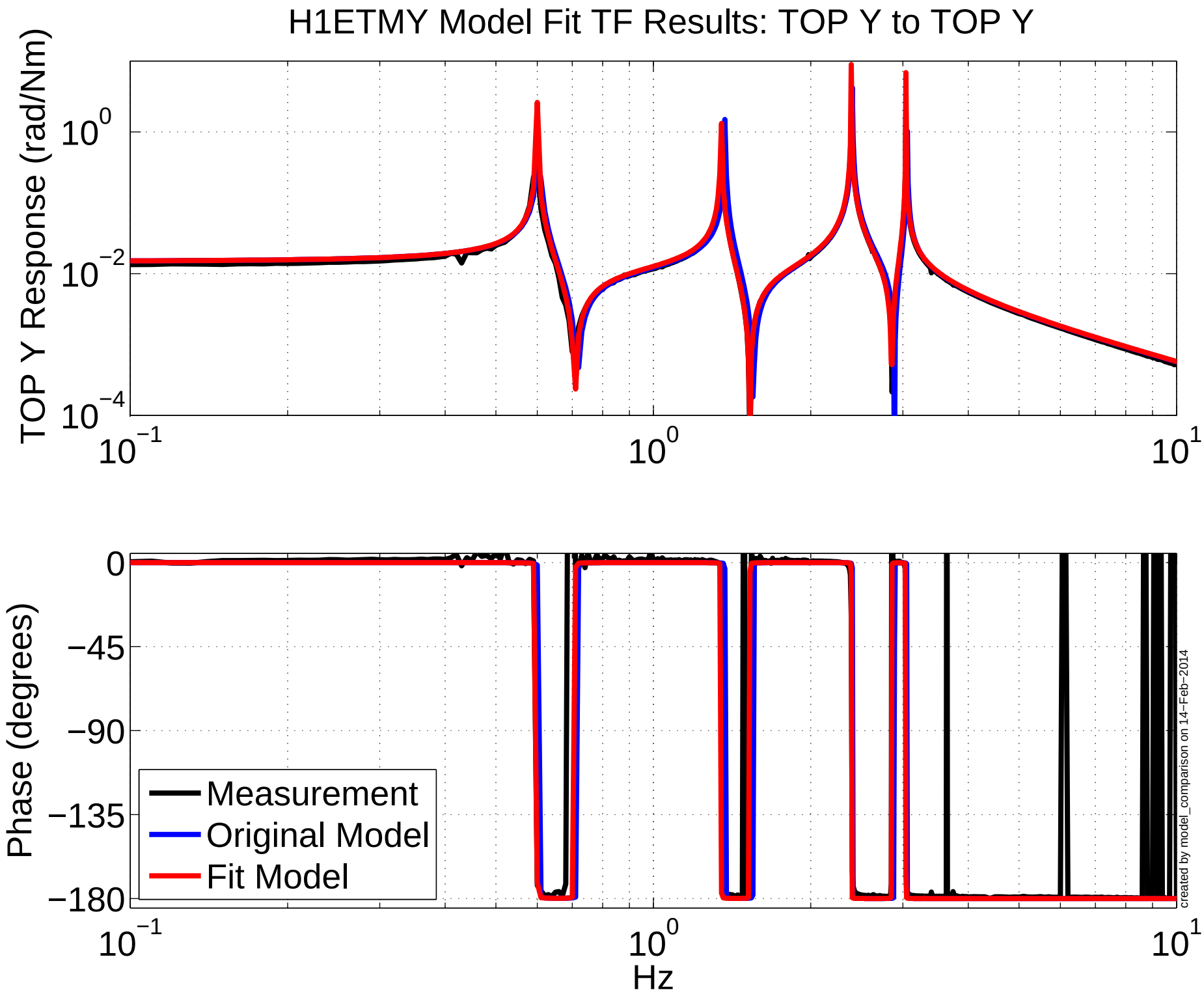
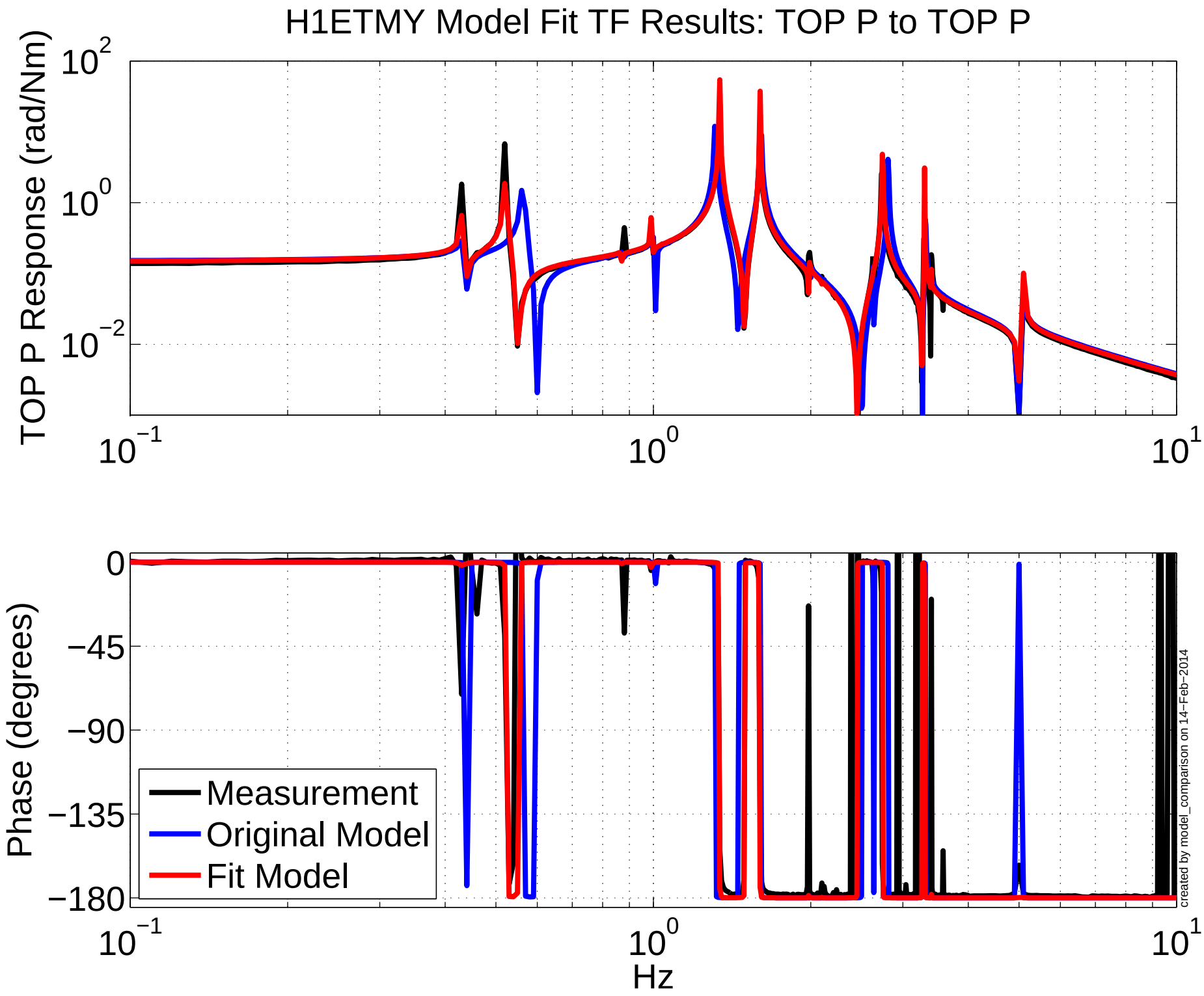
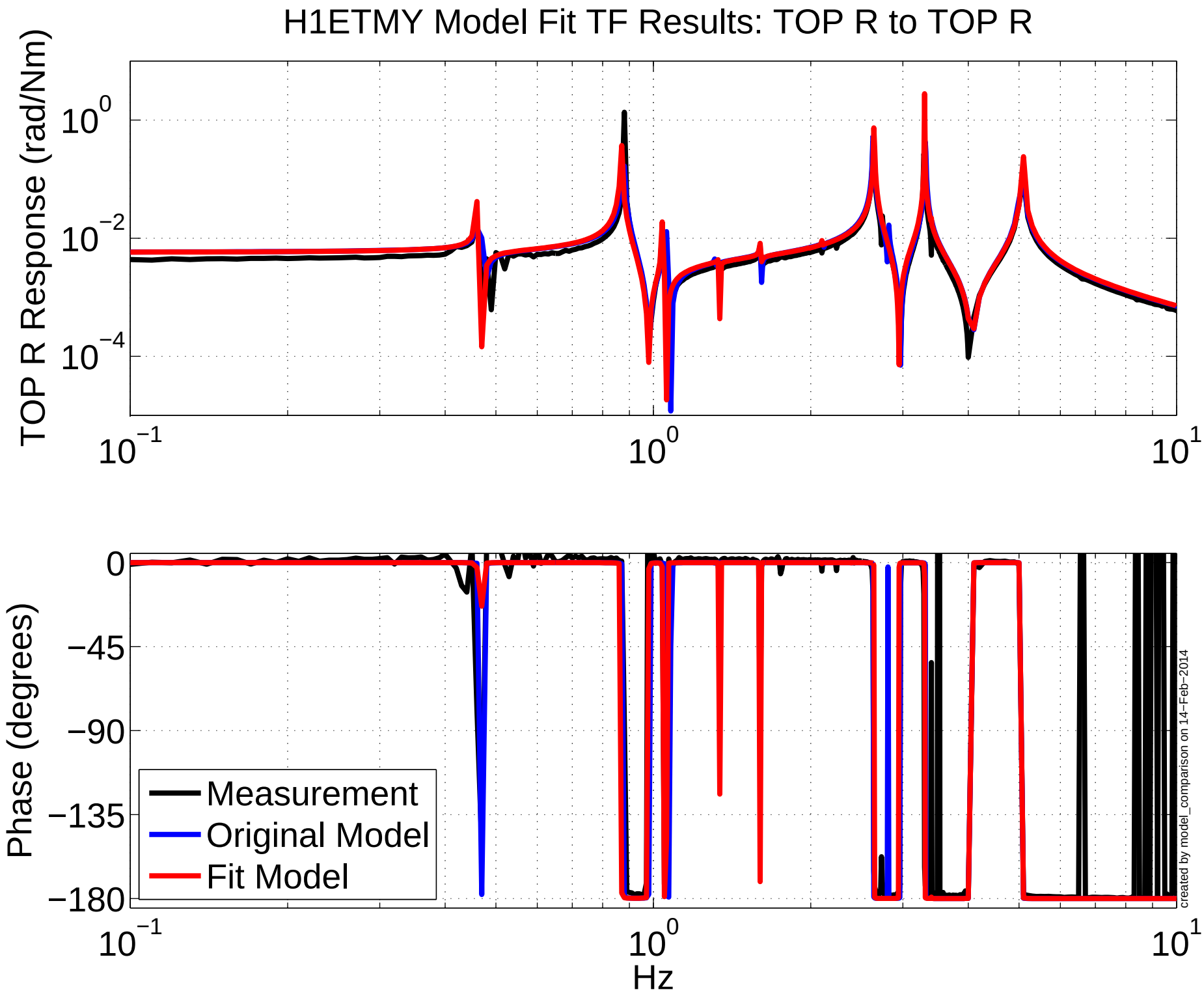

H1ETMY Model Fit TF Results: TOP L to TOP L
TOP L Response (m/N)
$10^{-2}$
$10^{-4}$
$10^{-6}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

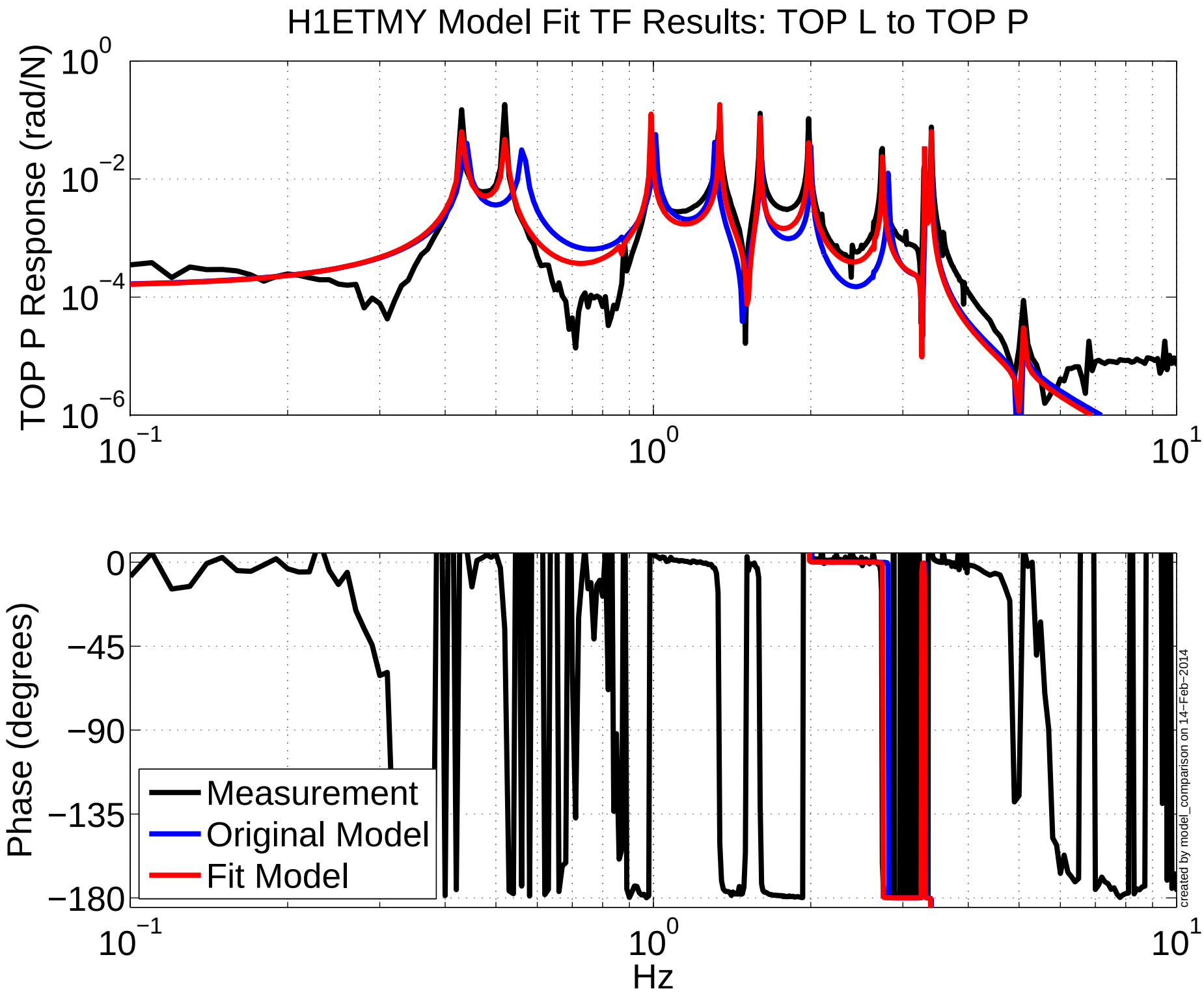

H1ETMY Model Fit TF Results: TOP T to TOP T
TOP T Response (m/N)
$10^{-2}$
$10^{-4}$
$10^{-6}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

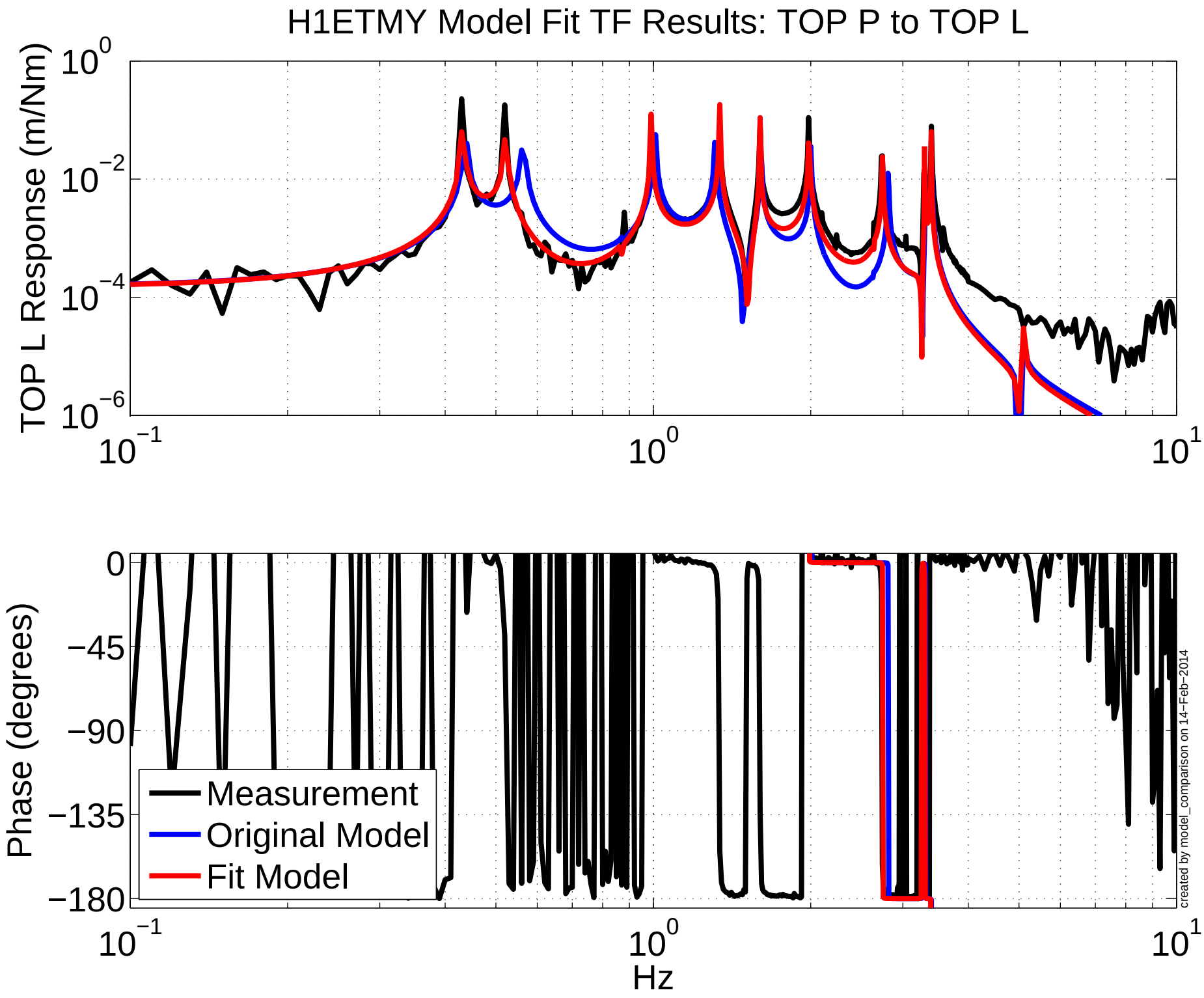

H1ETMY Model Fit TF Results: TOP V to TOP V
TOP V Response (m/N)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-6}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

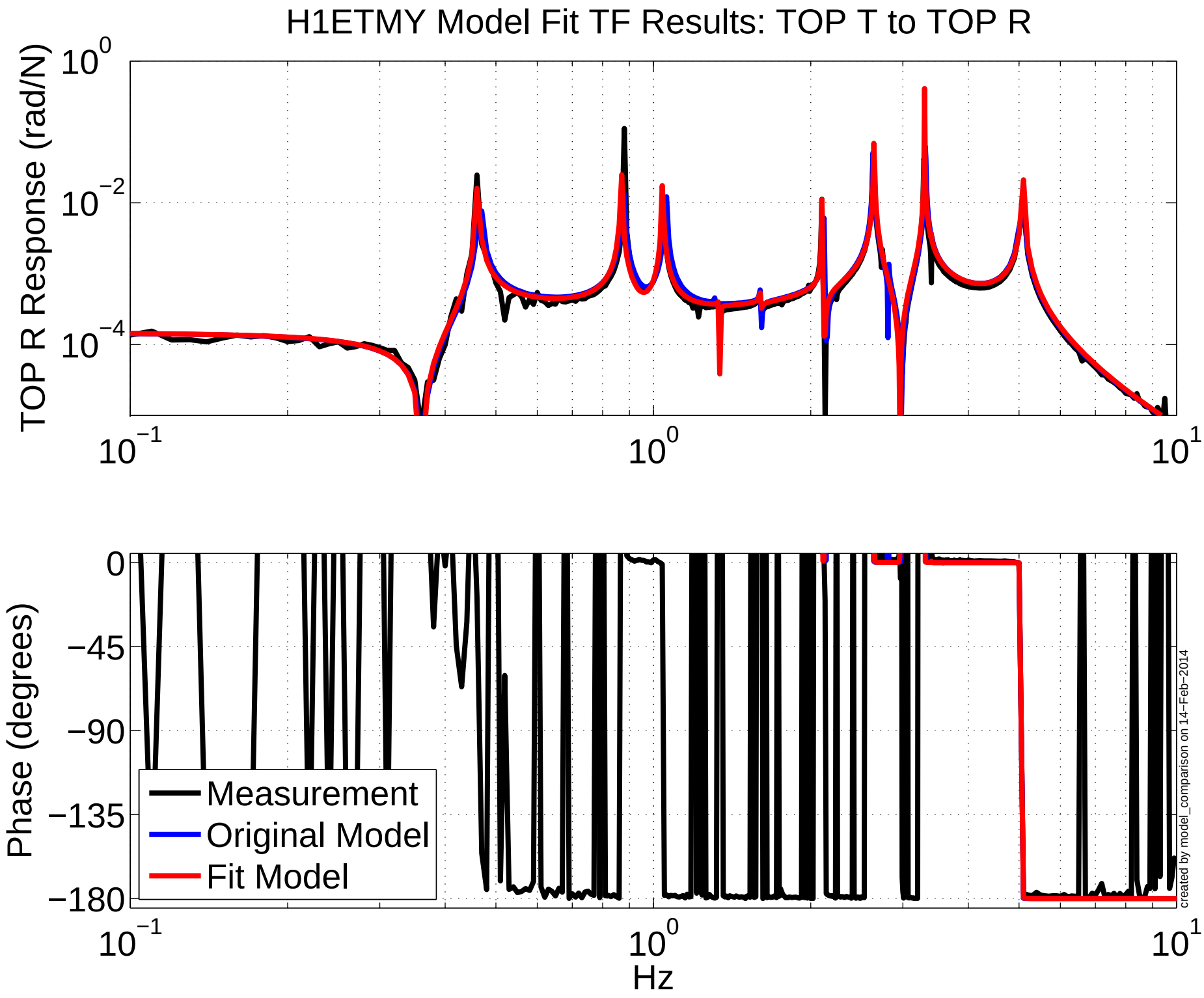

H1ETMY Model Fit TF Results: TOP Y to TOP Y
TOP Y Response (rad/Nm)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

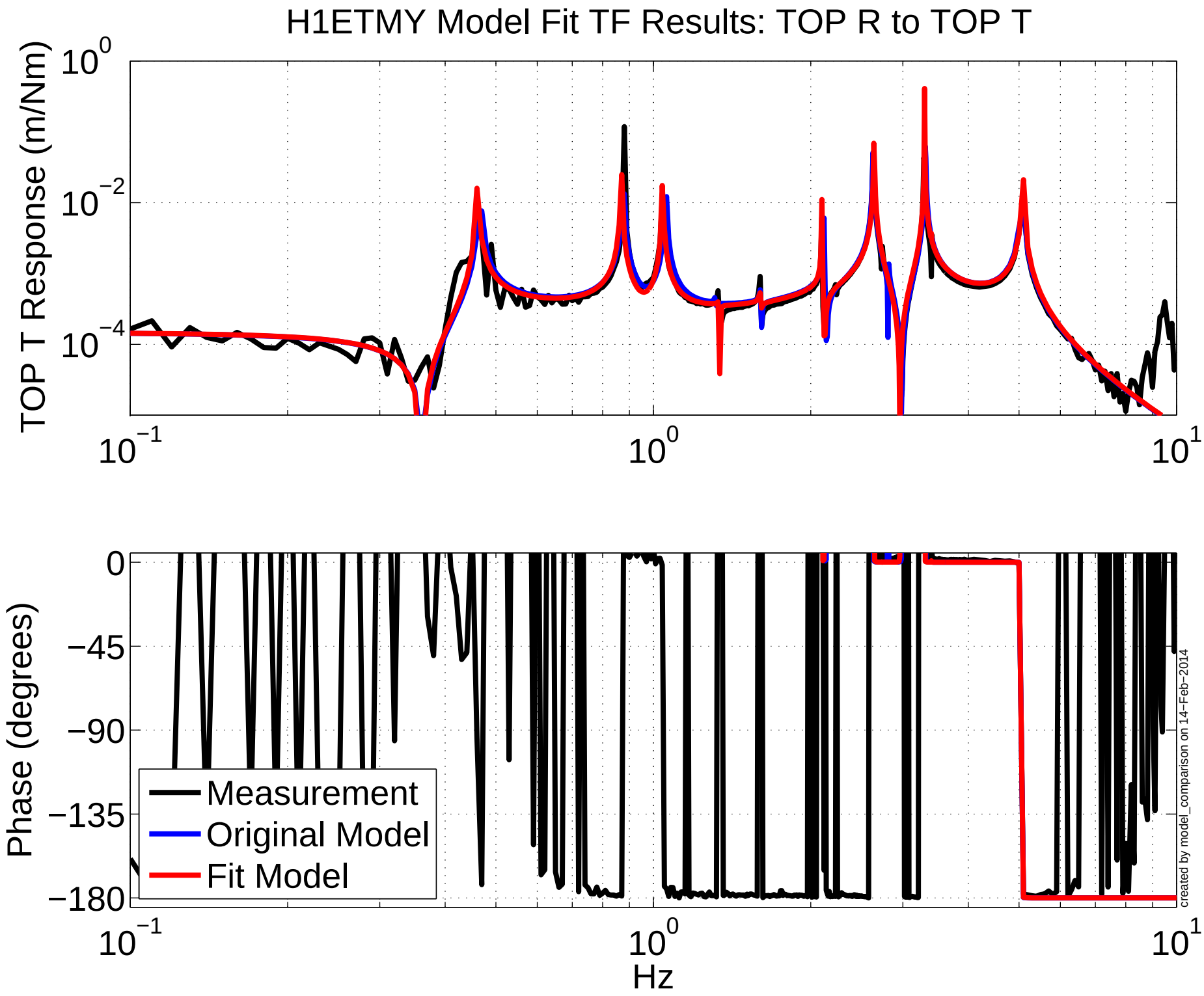

H1ETMY Model Fit TF Results: TOP P to TOP P
TOP P Response (rad/Nm)
$10^2$
$10^0$
$10^{-2}$
$10^{-1}$
$10^0$
$10^1$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

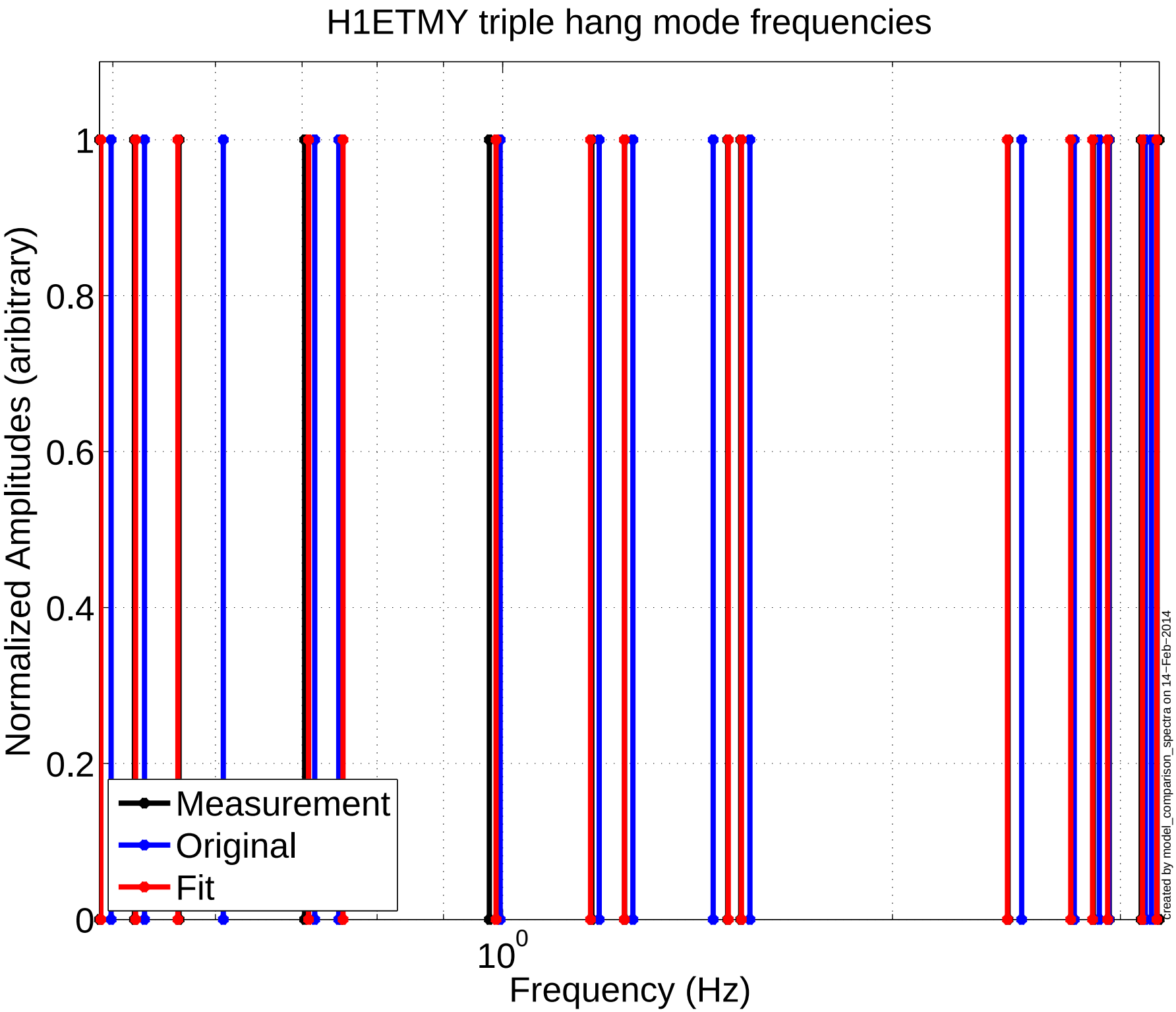

H1ETMY Model Fit TF Results: TOP R to TOP R
TOP R Response (rad/Nm)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

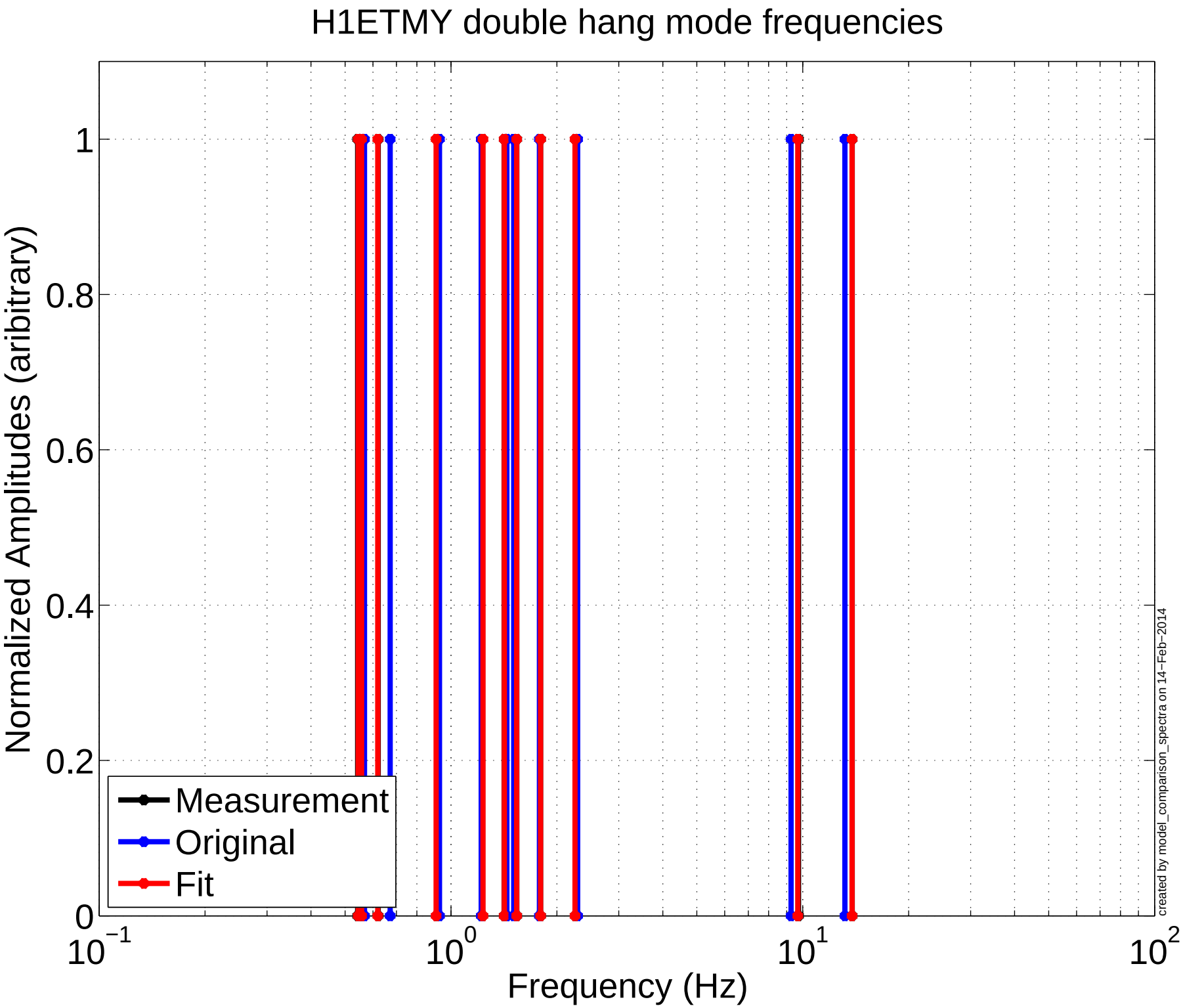

H1ETMY Model Fit TF Results: TOP L to TOP P
TOP P Response (rad/N)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-6}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

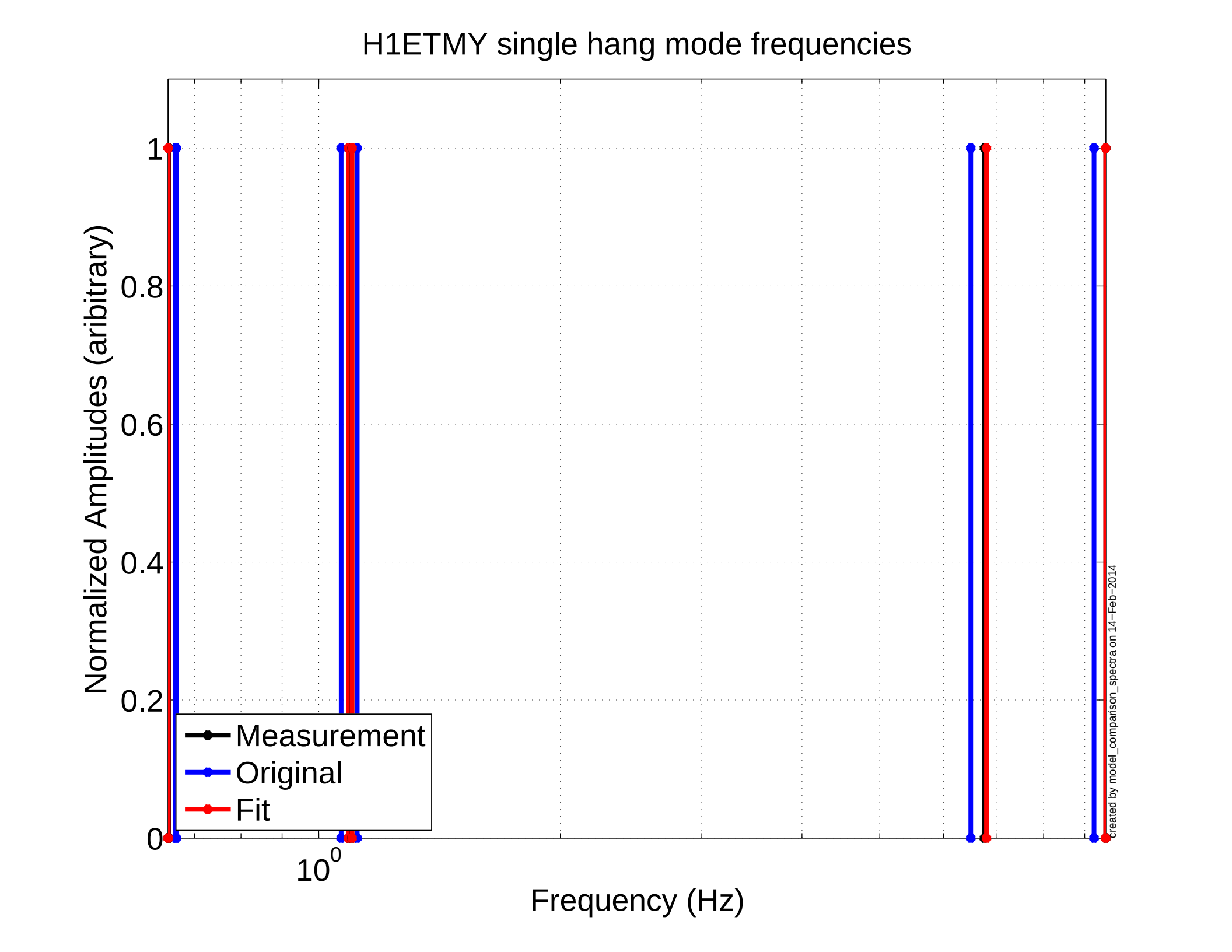

H1ETMY Model Fit TF Results: TOP P to TOP L
TOP L Response (m/Nm)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-6}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

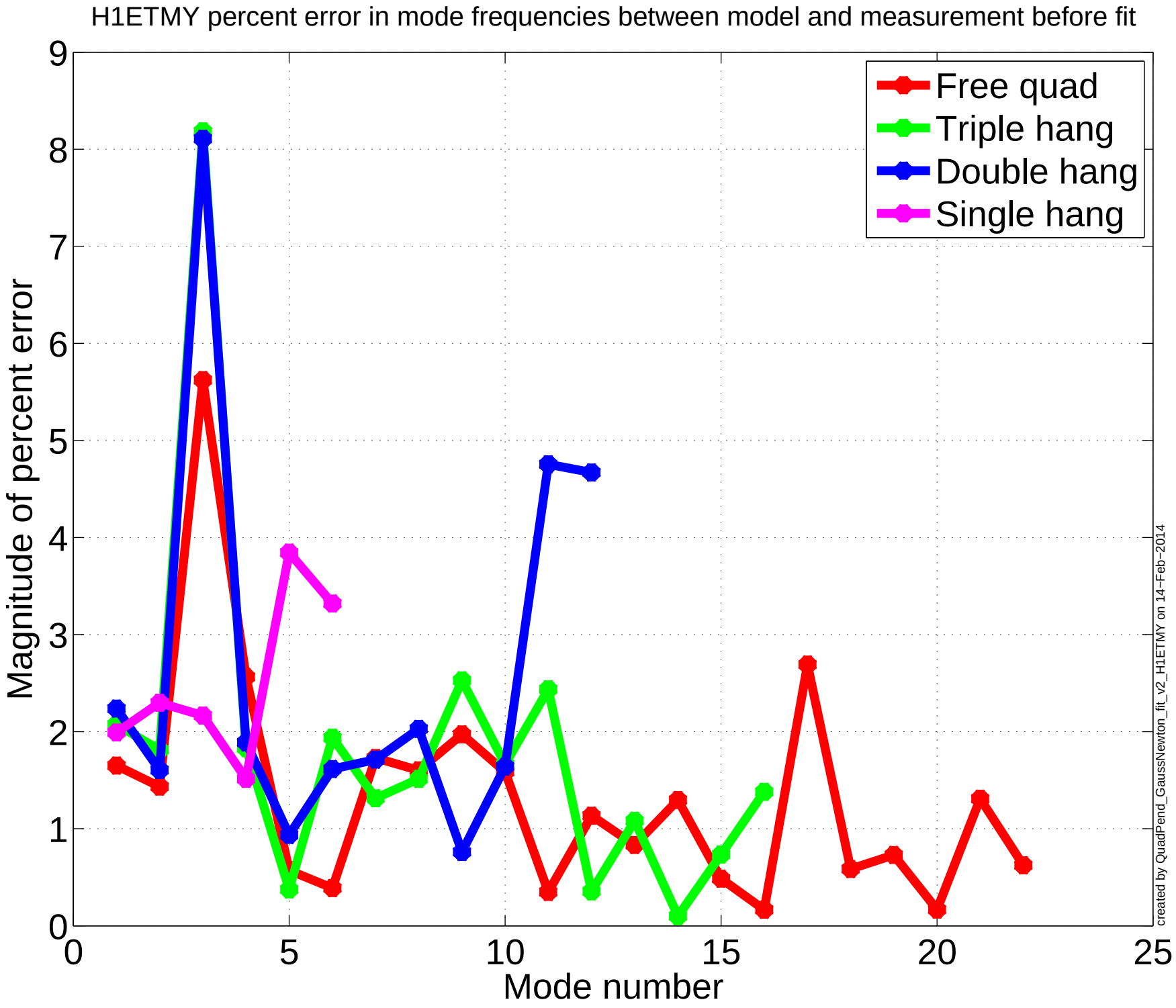

H1ETMY Model Fit TF Results: TOP T to TOP R
TOP R Response (rad/N)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

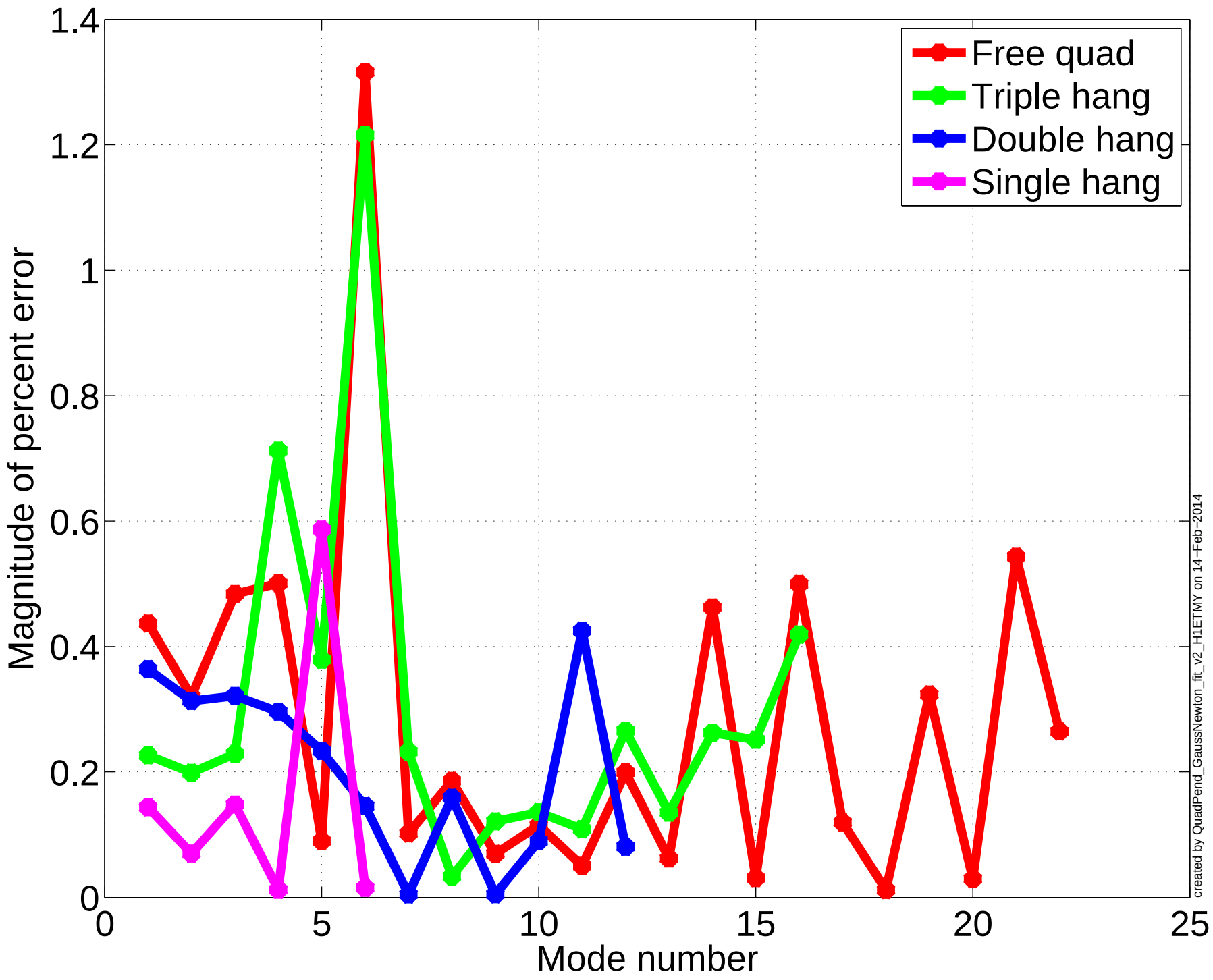

H1ETMY Model Fit TF Results: TOP R to TOP T
TOP T Response (m/Nm)
$10^{0}$
$10^{-2}$
$10^{-4}$
$10^{-1}$
$10^{0}$
$10^{1}$
Phase (degrees)
0
−45
−90
−135
−180
Measurement
Original Model
Fit Model
Hz
created by model_comparison on 14−Feb−2014

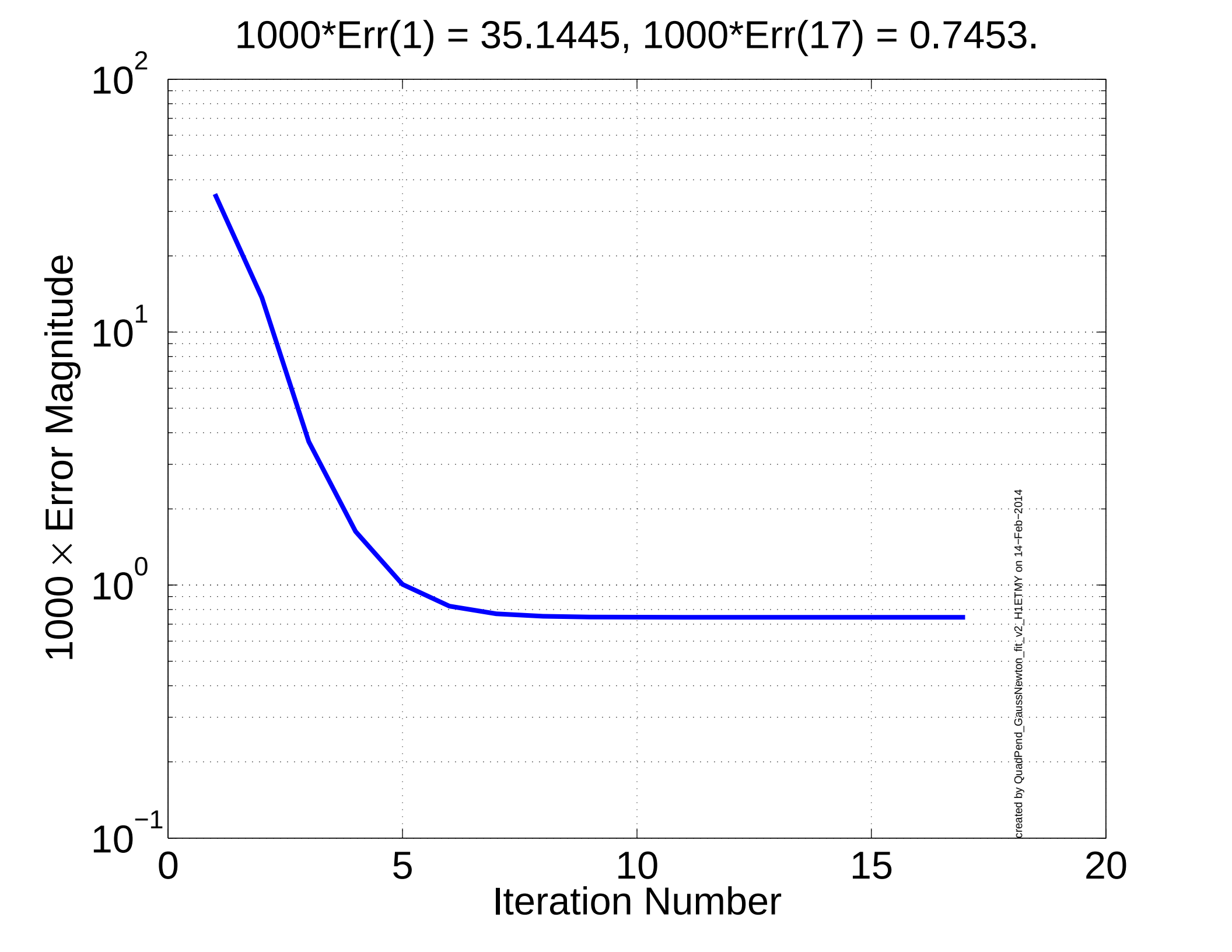

H1ETMY triple hang mode frequencies
Normalized Amplitudes (aribitrary)
1
0.8
0.6
0.4
0.2
0
Measurement
Original
Fit
$10^0$
Frequency (Hz)
created by model_comparison_spectra on 14−Feb−2014


H1ETMY double hang mode frequencies
Normalized Amplitudes (aribitrary)
Frequency (Hz)
Measurement
Original
Fit
created by model_comparison_spectra on 14−Feb−2014


H1ETMY single hang mode frequencies
Normalized Amplitudes (aribitrary)
1
0.8
0.6
0.4
0.2
0
$10^0$
Frequency (Hz)
Measurement
Original
Fit
created by model_comparison_spectra on 14−Feb−2014


H1ETMY percent error in mode frequencies between model and measurement before fit
Free quad
Triple hang
Double hang
Single hang
Magnitude of percent error
Mode number
0
1
2
3
4
5
6
7
8
9
0
5
10
15
20
25
created by QuadPend_GaussNewton_fit_v2_H1ETMY on 14−Feb−2014


H1ETMY percent error in mode frequencies between model and measurement after fit
Free quad
Triple hang
Double hang
Single hang
Magnitude of percent error
Mode number
0
0.2
0.4
0.6
0.8
1
1.2
1.4
0
5
10
15
20
25
created by QuadPend_GaussNewton_fit_v2_H1ETMY on 14−Feb−2014


1000*Err(1) = 35.1445, 1000*Err(17) = 0.7453.
$10^2$
$10^1$
$10^0$
$10^{-1}$
1000 × Error Magnitude
0
5
10
15
20
Iteration Number
created by QuadPend_GaussNewton_fit_v2_H1ETMY on 14−Feb−2014