#1338: HyperView – Complex Filter with two options
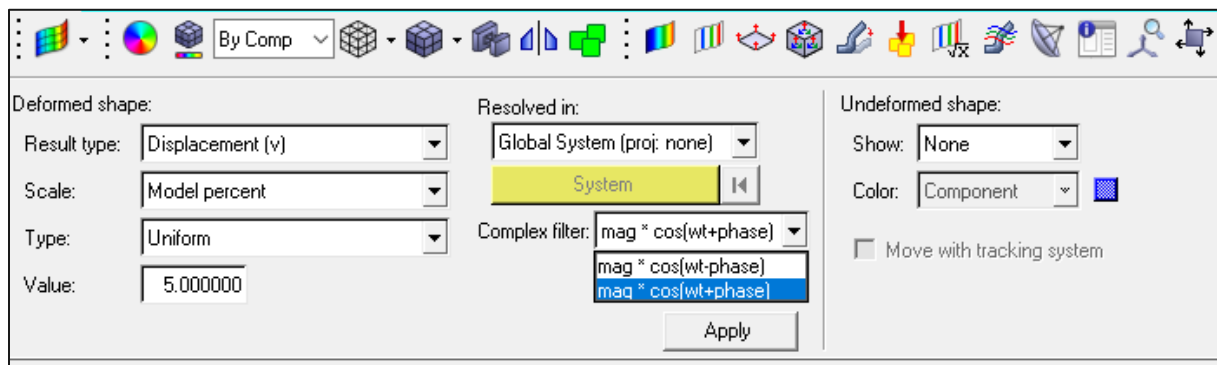
Product: HyperView
Product Version: HyperView 2017.3 or above

Topic Objective
Complex filter in HyperView.

Topic Details
A Complex filter with two options, mag*cos(wt-phase) and mag*cos(wt+phase), is added to the Deformed panel. This filter is important when viewing modal animations of complex analysis such as frequency response.

Note: If you want to extract the stresses in Hyperview using HV complex filter then it will not activate for Von Mises stresses.
Complex results of invariants of a vector (like magnitude of displacement) or a tensor (like von-Mises value of stress) is not a complex number. It can only be calculated at a specific angle from the response of each components at an angle.

When a complex result is loaded, HyperView will automatically switch to modal animation mode and you have options in the complex filter to choose different measures like mag, phase, real, imaginary and mag * cos (wt – phase)