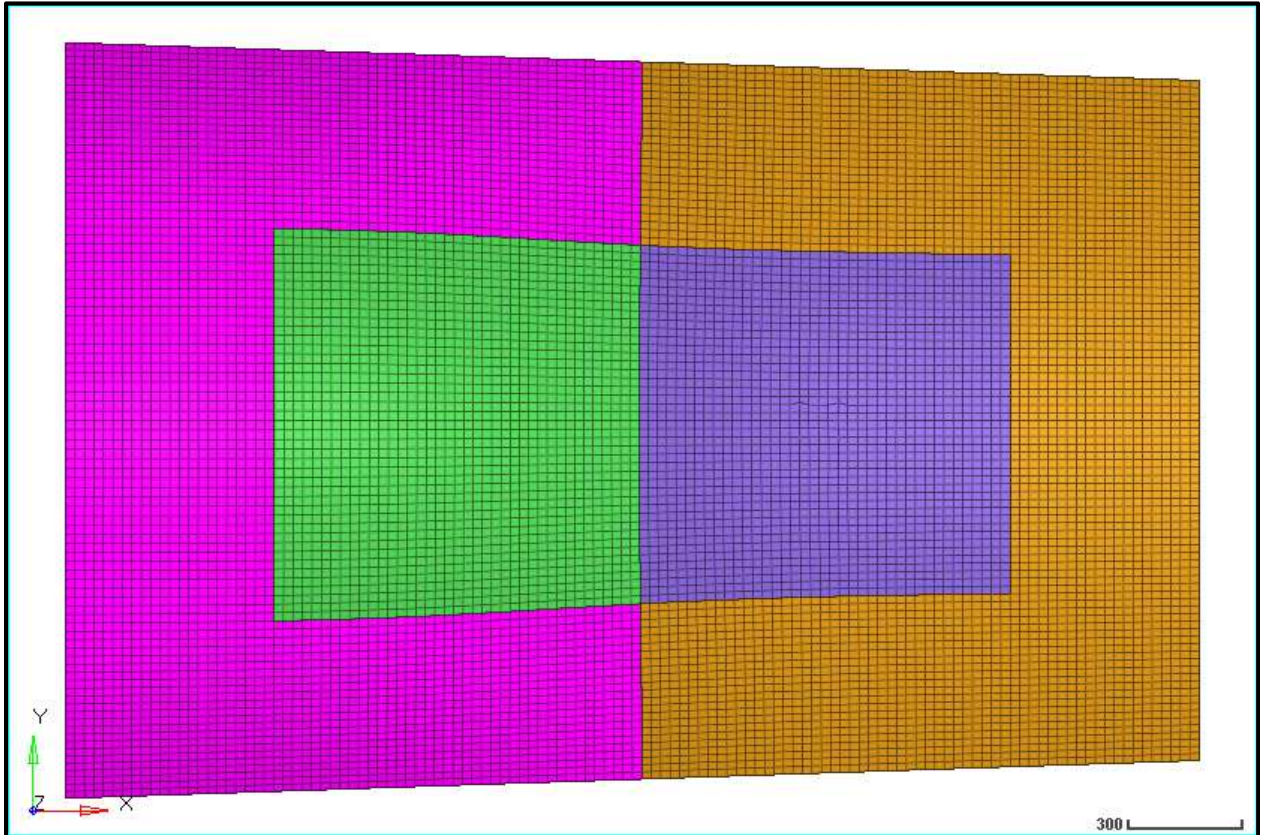


## Exercise 4d: Analysis of a Composite Underbelly Fairing

This exercise requires the user to finish setting up and solving an underbelly fairing from an aircraft model. The analysis will require users to create only the plies and laminate necessary for the analysis in the HyperMesh Desktop environment. This setup illustrates spanning a laminate across several components.



### Problem Setup

You should copy the file: `ub_fairing_analysis.hm`





## Step 1: Open the model in HyperMesh Desktop with the OptiStruct user profile

## Step 2: Create the plies for the model using the existing elements sets

**Tip:** These element sets contain elements from various components.

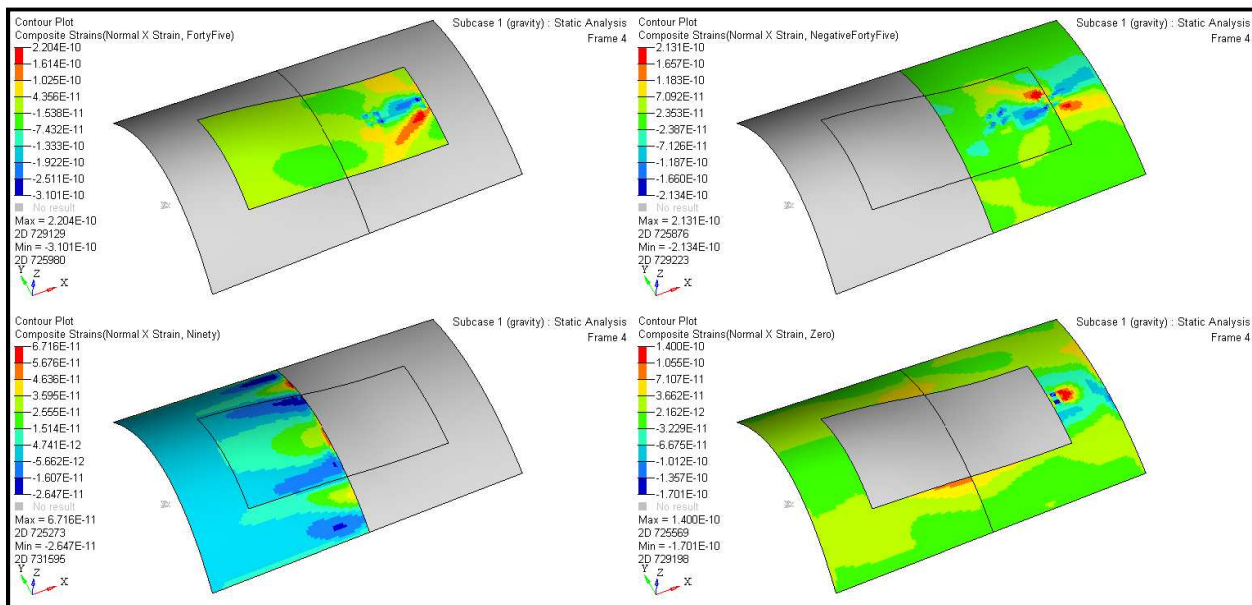
Ply Name	Element Set	Material	Thickness	Orientation
Zero	Shape 1	c_f	0.4	0
Forty-Five	Shape 2	c_f	0.4	45
Ninety	Shape 3	c_f	0.4	90
Negative Forty-five	Shape 4	c_f	0.4	-45

## Step 3: Create the laminate with the following ply order

Name	Id	Color
Zero	1	
Forty-Five	2	
Negative Forty-five	4	
Ninety	3	

## Step 4: Review the model using the composite visualization options

## Step 5: Run the analysis and post-process the model results using HyperView



# EXERCISE RESULTS: ub\_fairing\_analysis.h3d

