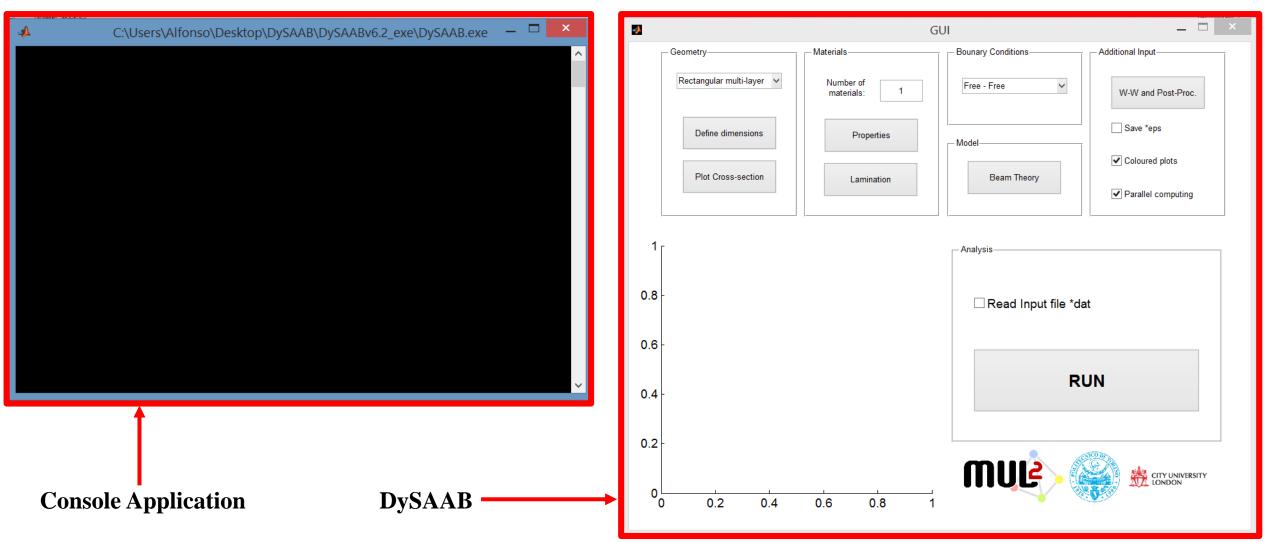
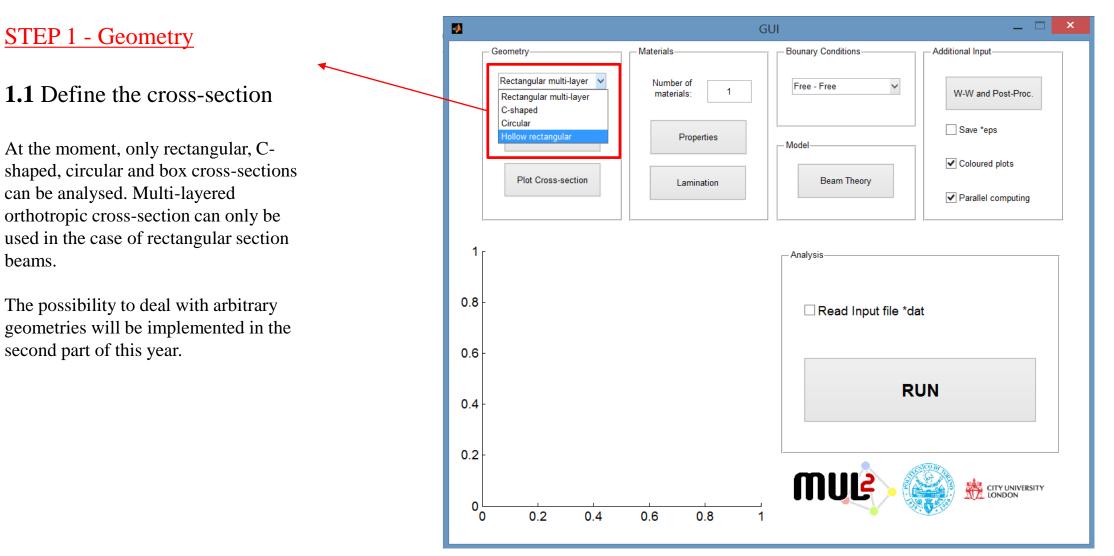
Dynamic Stiffness Analysis of Advanced Beams (DySAAB)

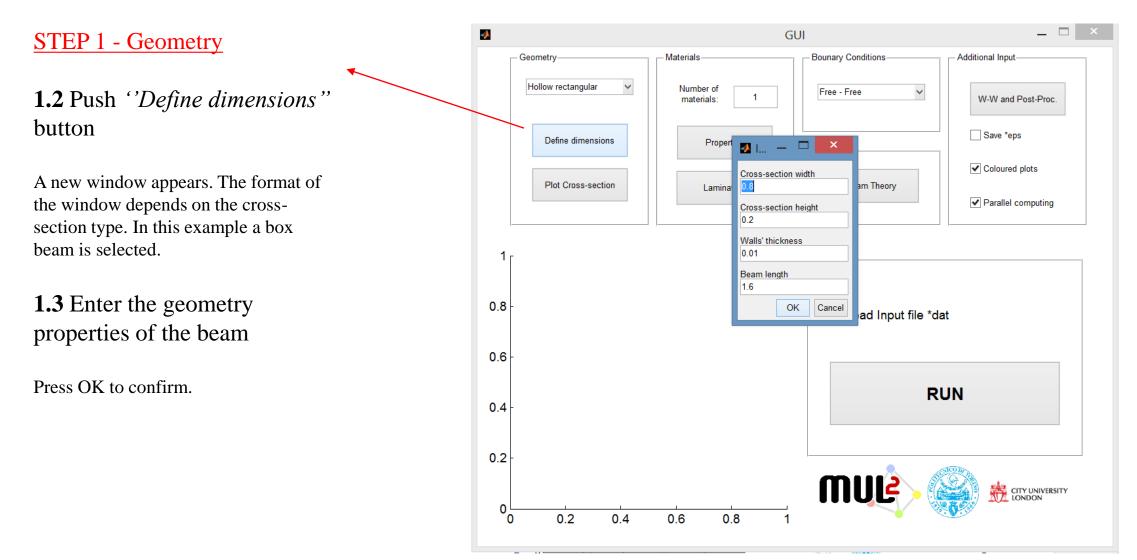
A. Pagani, 2014

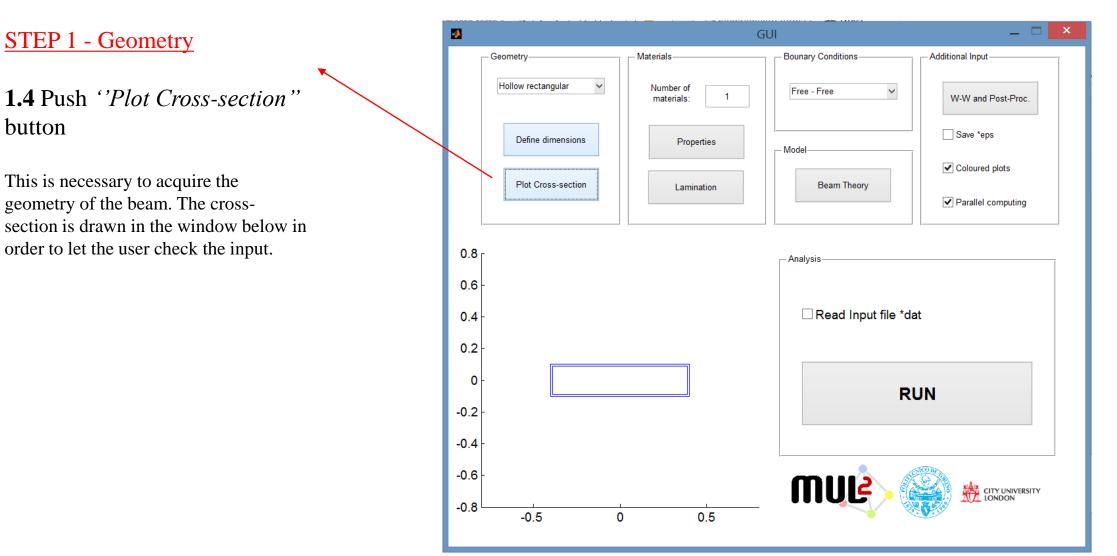


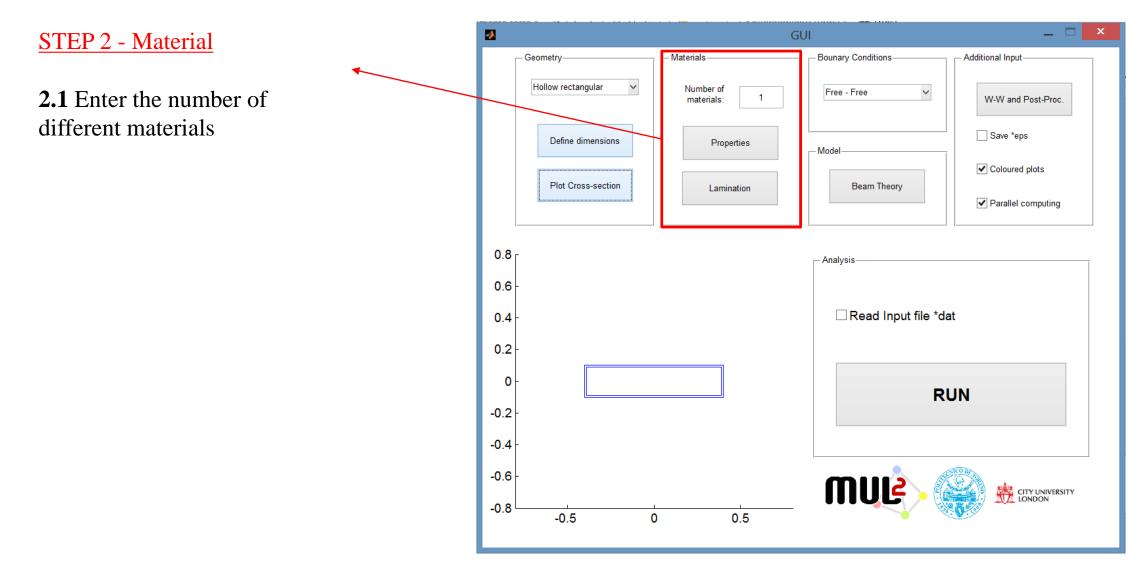
The DySAAB Graphical User Interface (GUI)

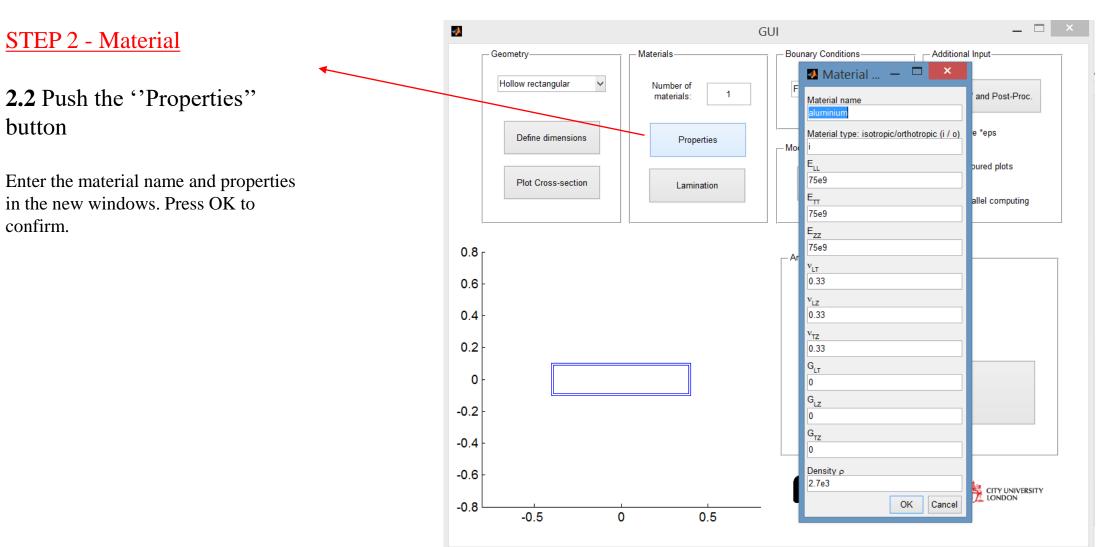


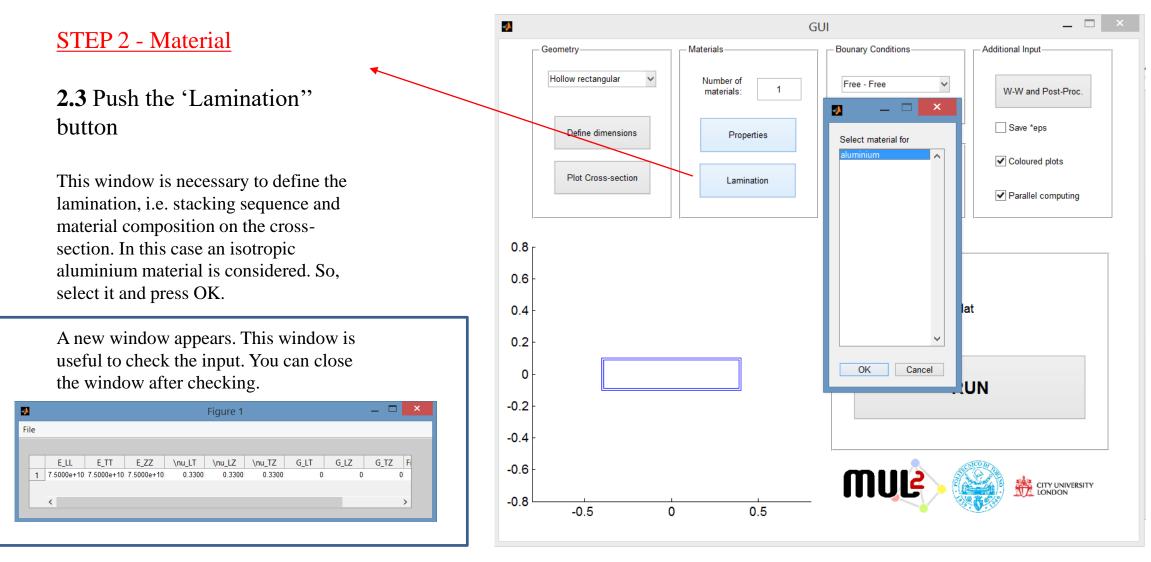


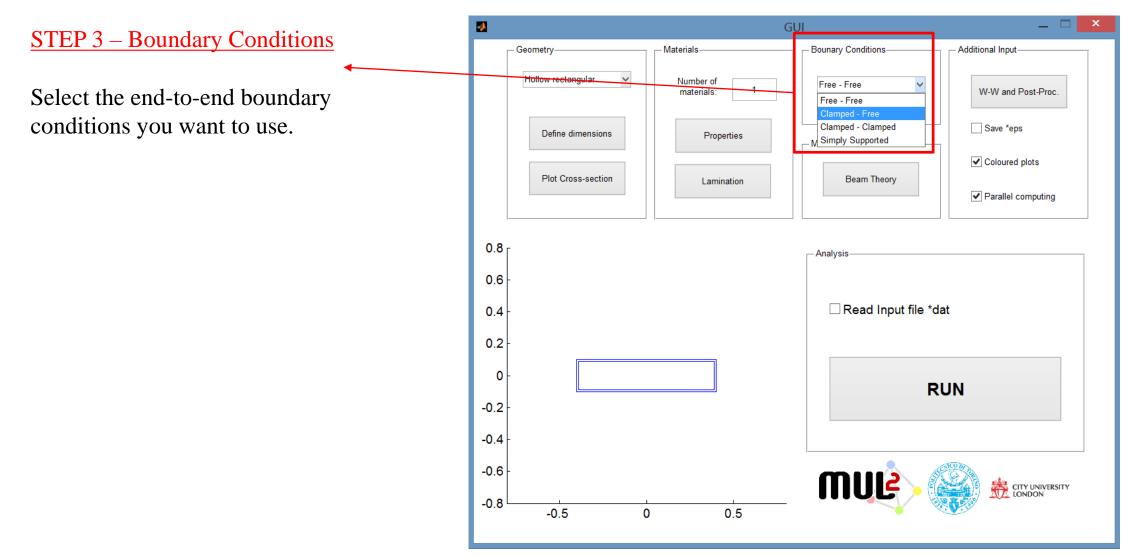


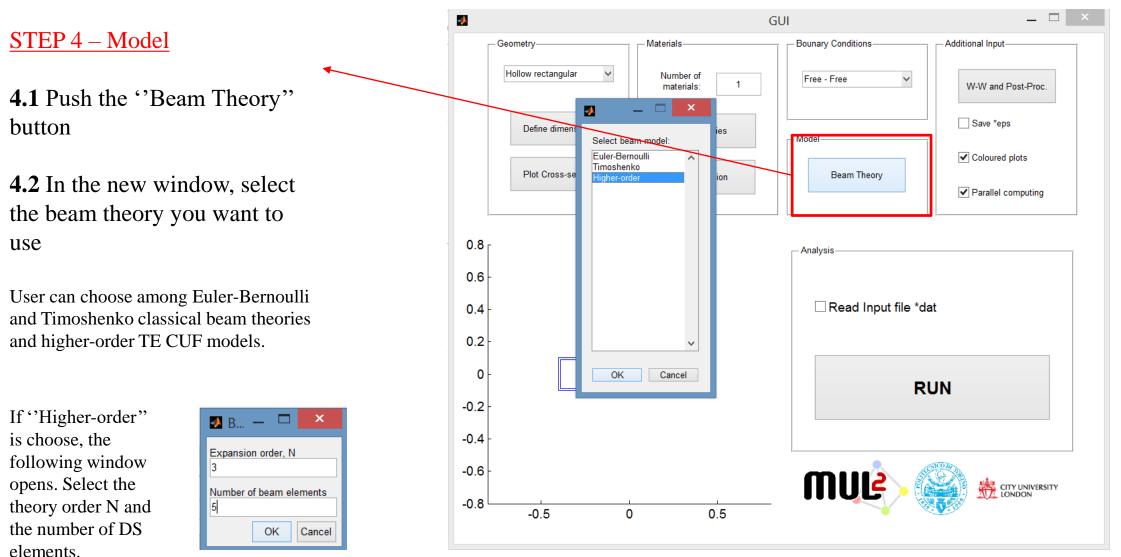


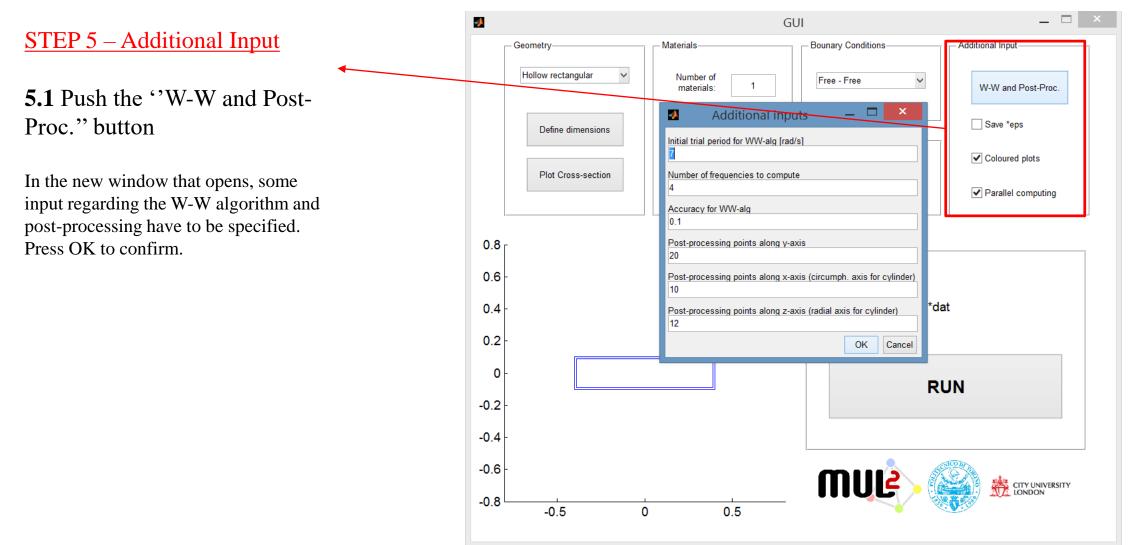






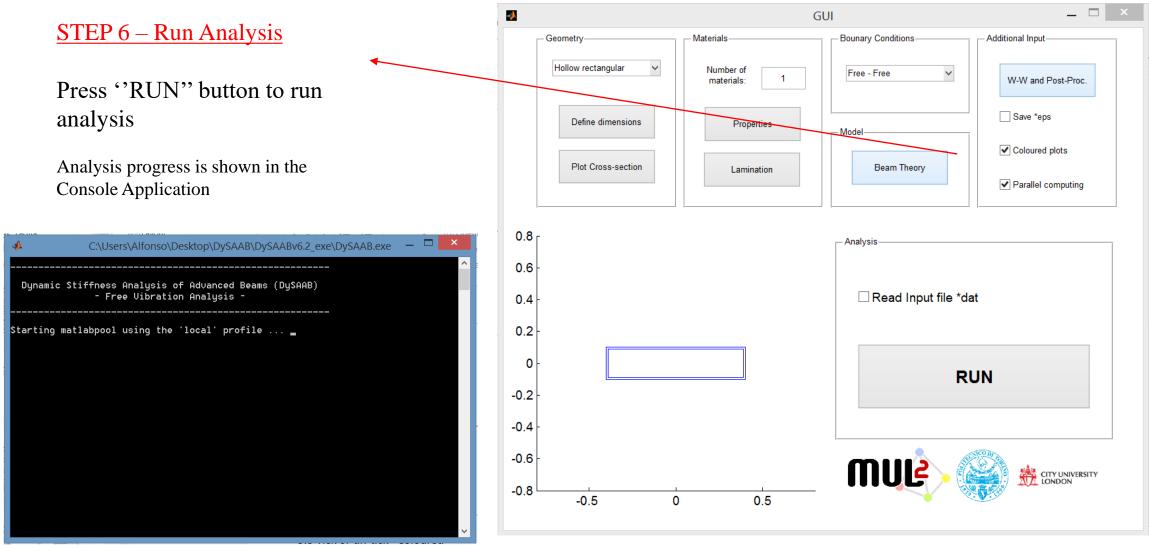


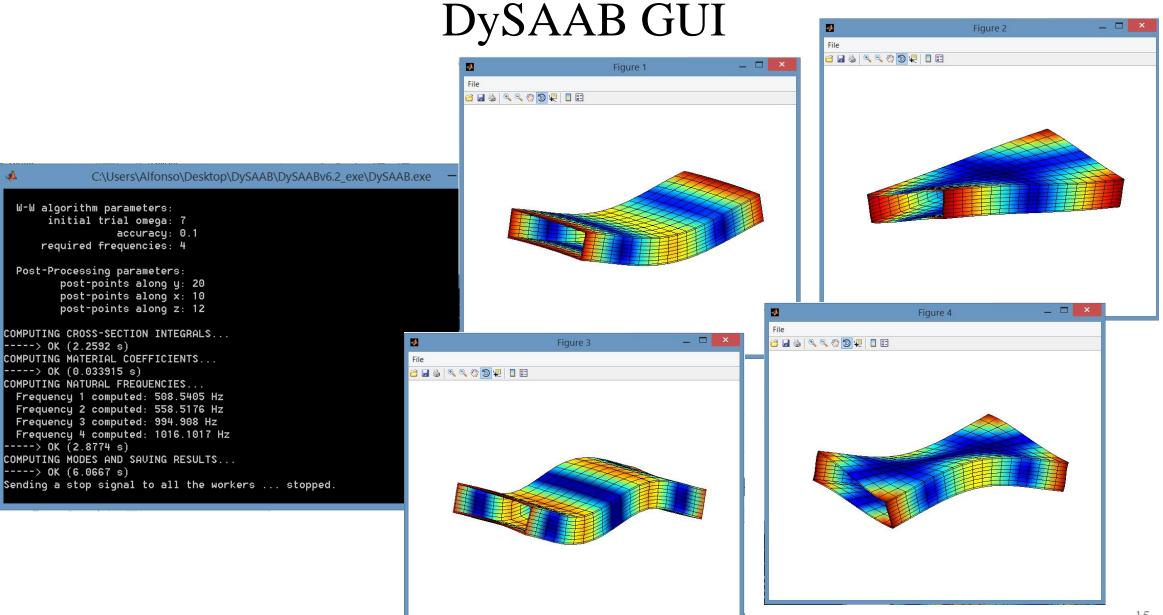


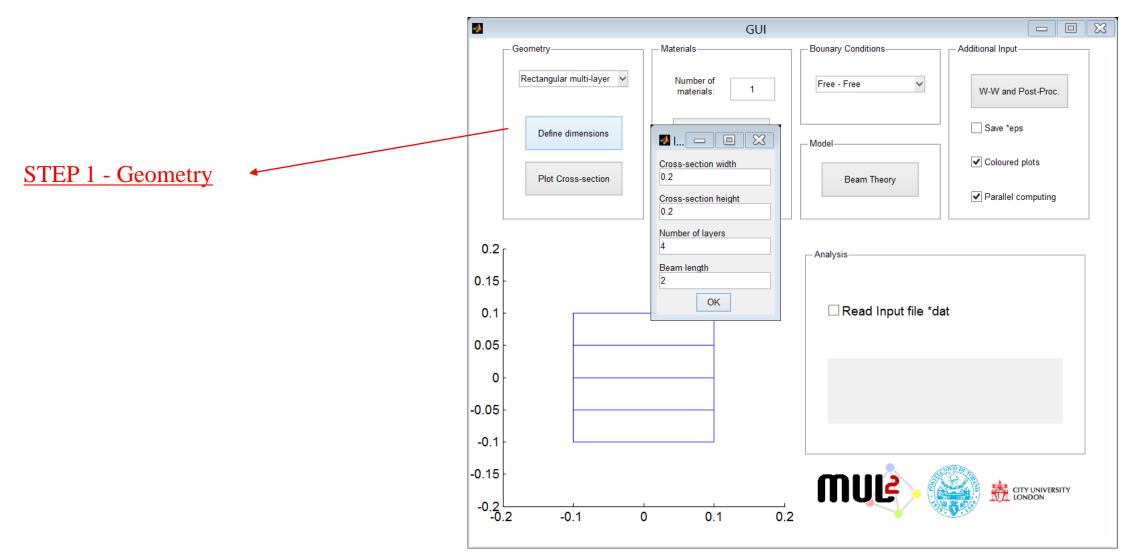


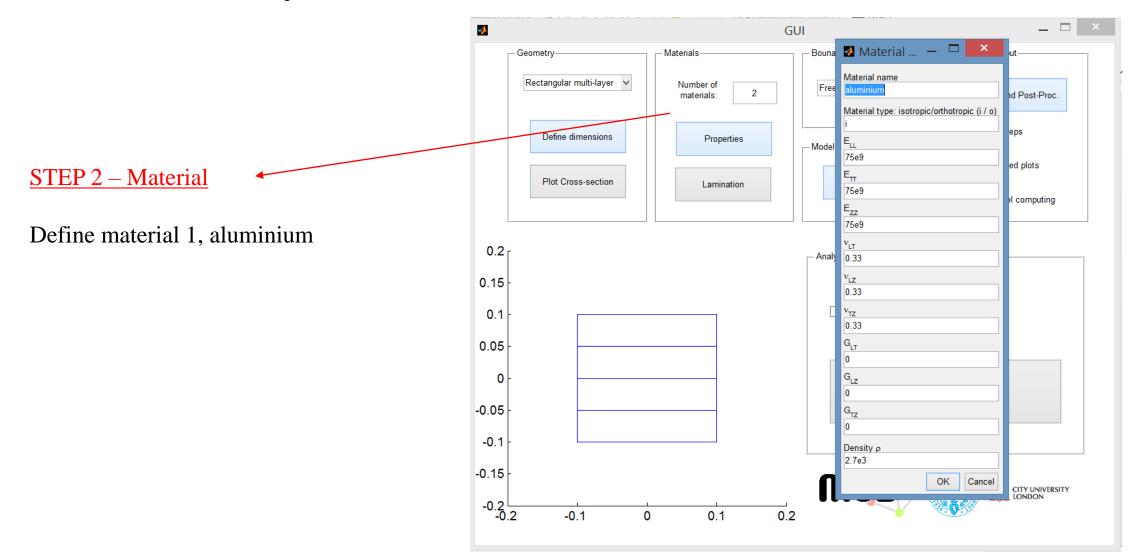


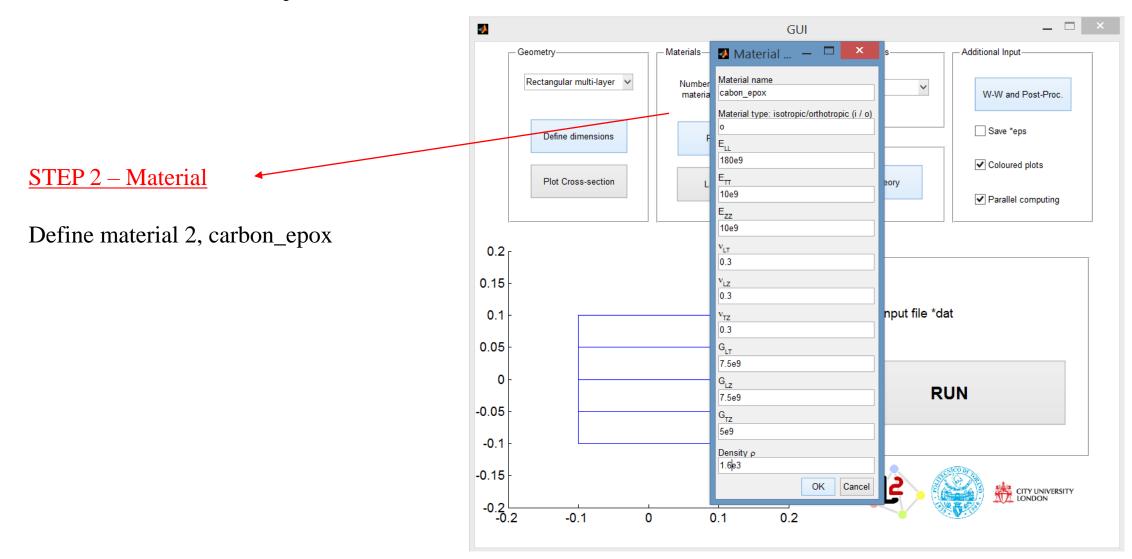
Activate to run in parallel computation mode.

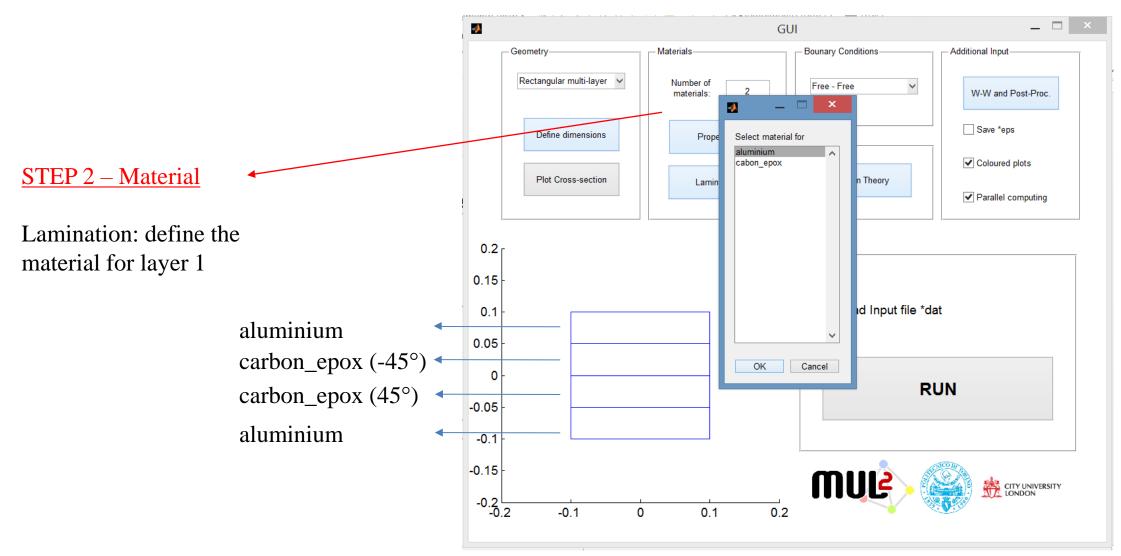


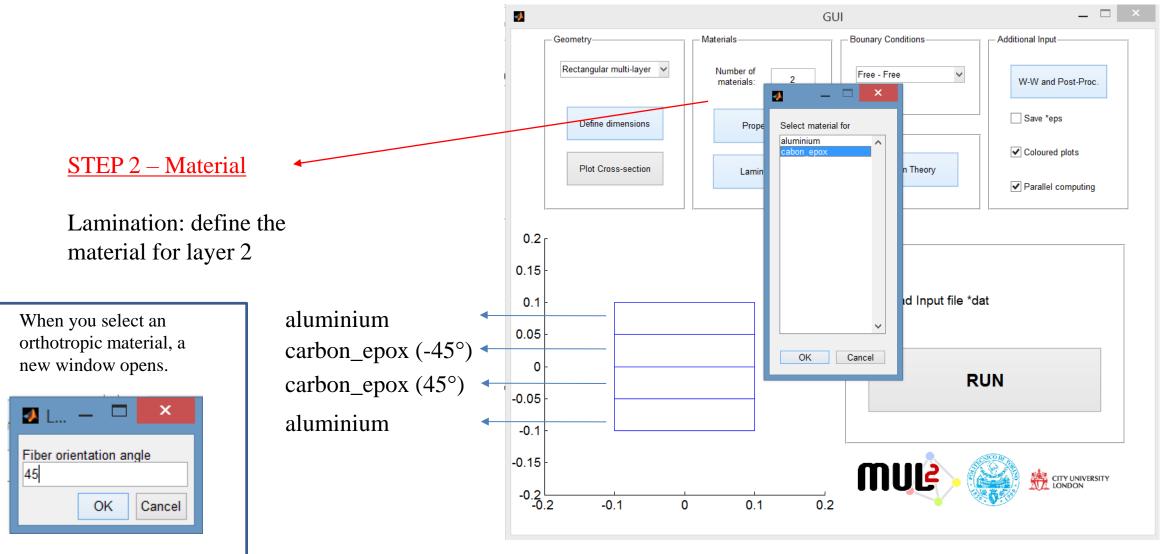


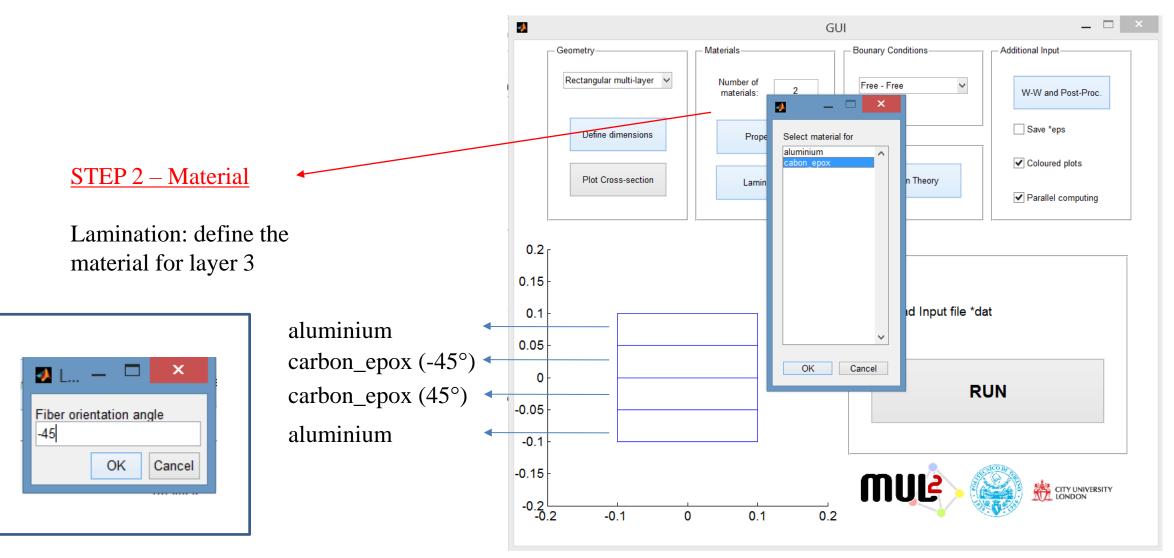


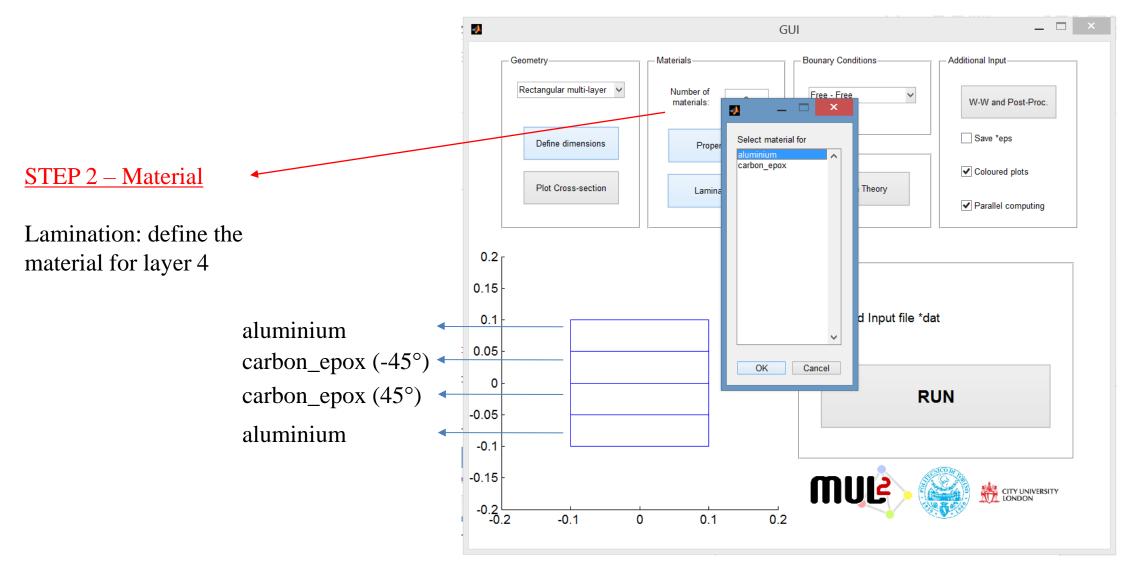






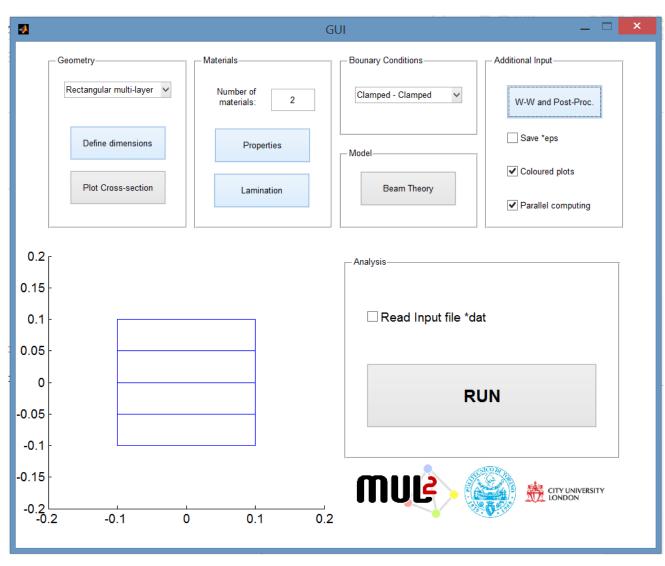


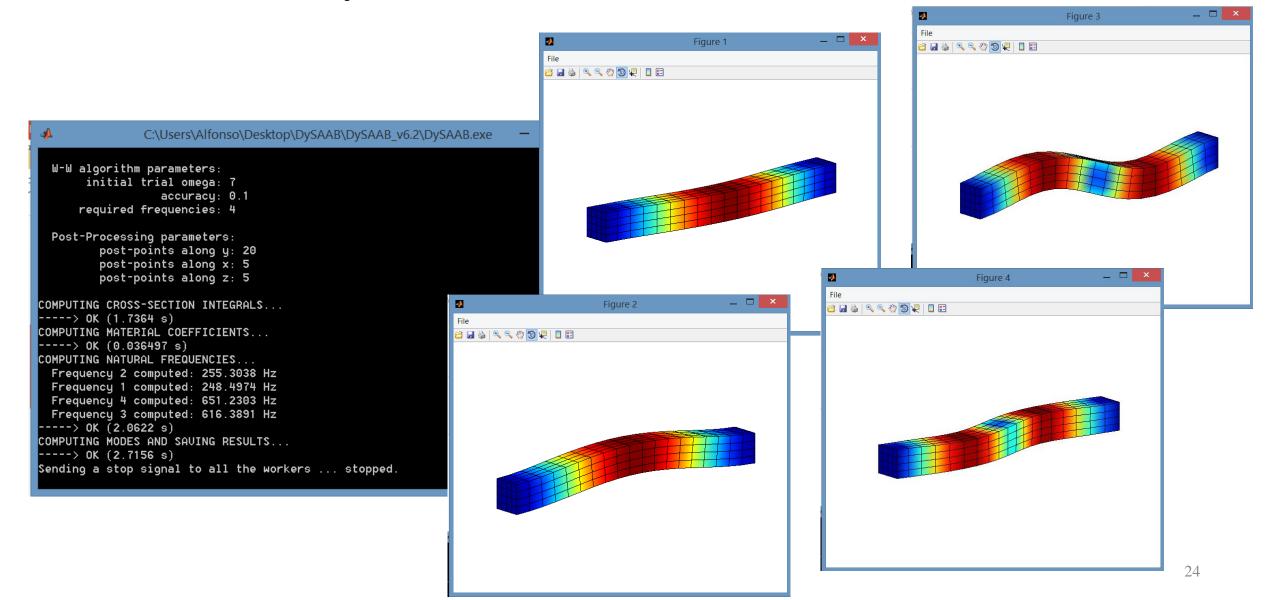




STEPS 3 to 6

As in the previous analysis case.

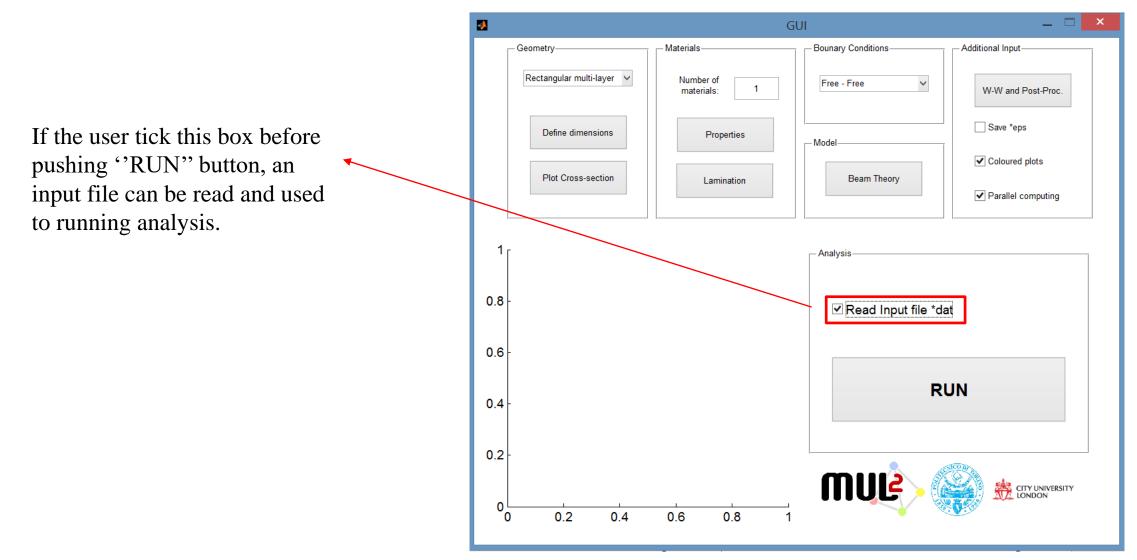




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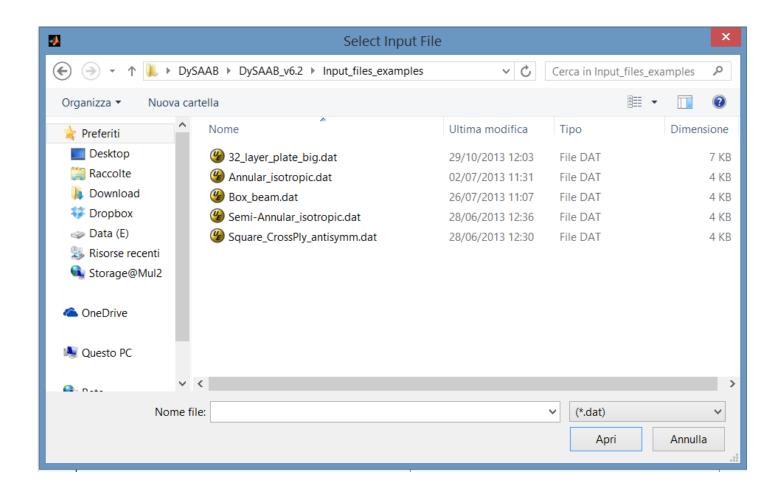
25

DySAAB GUI – Text data file input



DySAAB GUI – Text data file input

A new window opens to let the user chose the input data file.



DySAAB GUI – Text data file input

\$ INPUT \$

%%%% Theory order %% Format: N % -> 'N': 1.1 Euler-Bernoulli beam model; 8 %%% Number of DS beam elements **Example of input data file** 10 %%%% Shape of the cross-section %% Format: CS type CS geometry % -> 'CS type': 1 for Rectangular multi-layered, 2 for Isotropic C shape, 3 for Isotropic multi-layered cylinder, 4 for Isotropic rectangular box; % -> 'CS geometry': % Rectangular multi-layered -----> width z1 bottom z1 top ... zk bottom zk top Isotropic C shape ------> thickness bottom flange top flange vertical left web 응 -8. (Note: bottom, top and left side are measured on the mean line of the cross-section) 8 Isotropic multi-layered cylinder --> theta initial theta final r1 inner r1 outer ... rk inner rk outer **ş** -(Note: ri int, ri out are the radii of the i th layer; theta in is the angle where the cylinder starts (in d ÷. Isotropic Rectangular Box -----> width height thickness 1 296.5 -3.083328 -2.89062 -2.89062 -2.697912 -2.697912 -2.505204 -2.505204 -2.312496 -2.312496 -2.119788 -2.119788 -1.92708 -1.92708 -1.734372 -1.73 %%%% Length of the beam 559 %%%% Boundary Conditions %% Format: bcs % -> 'bcs': FF for Free-Free boundary conditions; % · · · · · · · CF for Clamped-Free boundary conditions; % South SS for Simply supported boundary conditions. Etc. FF