

C-130 cargo aircraft vibration mode shapes in flight

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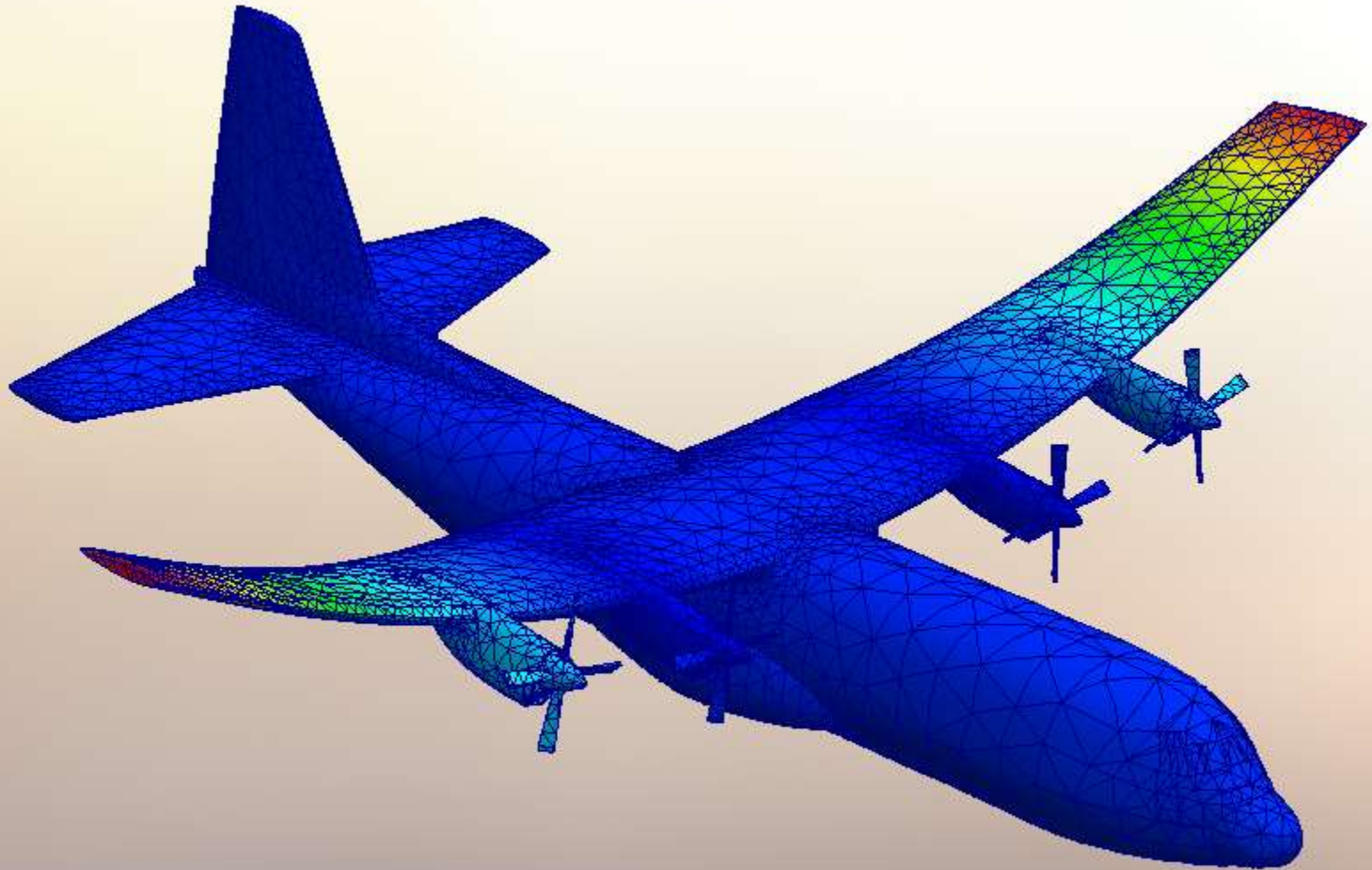


Grabcad Library model

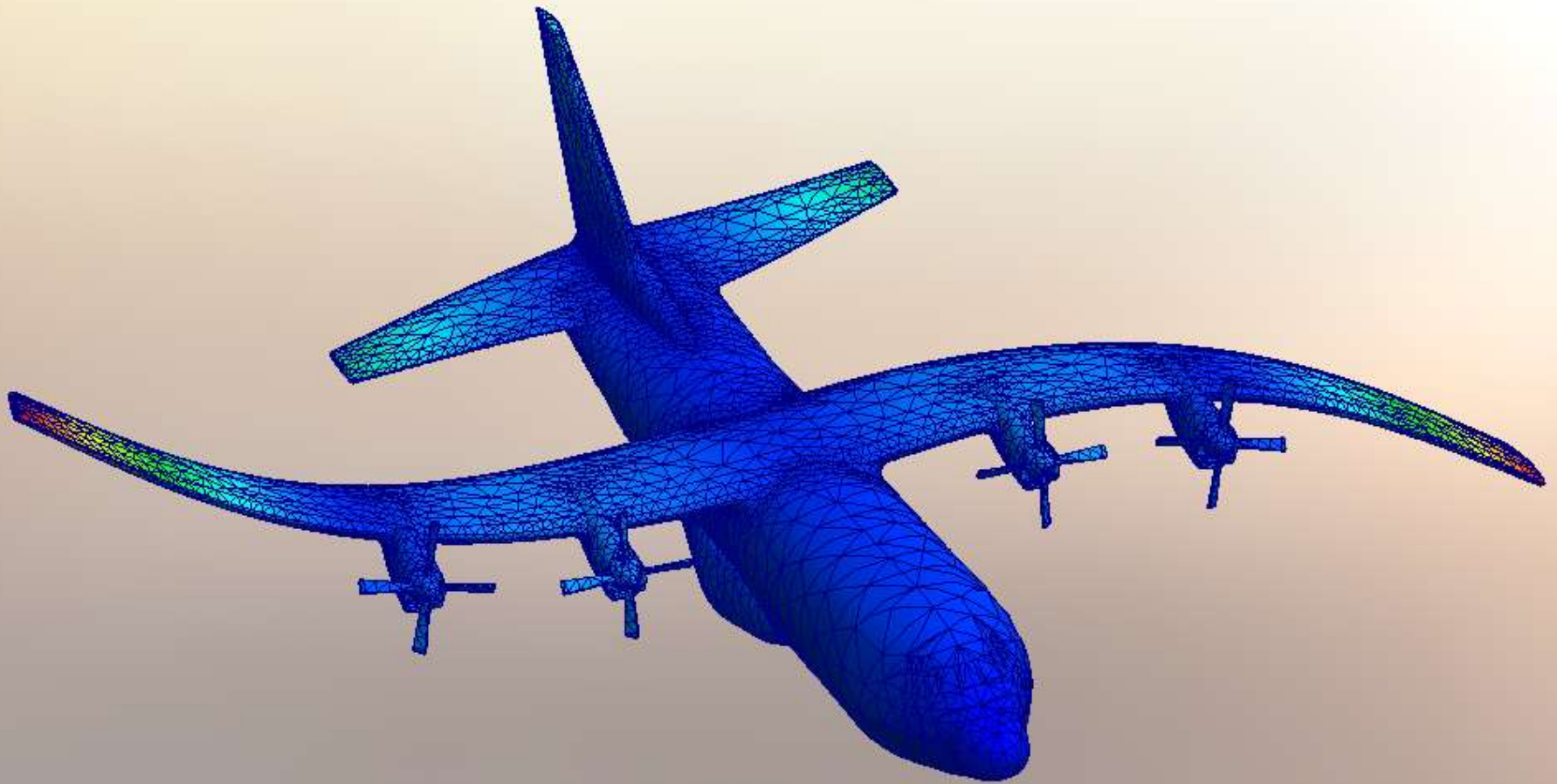
Analysis method

- Solidworks Simulation
- Frequency Module
- Free-Free boundary conditions
- Eigenvectors

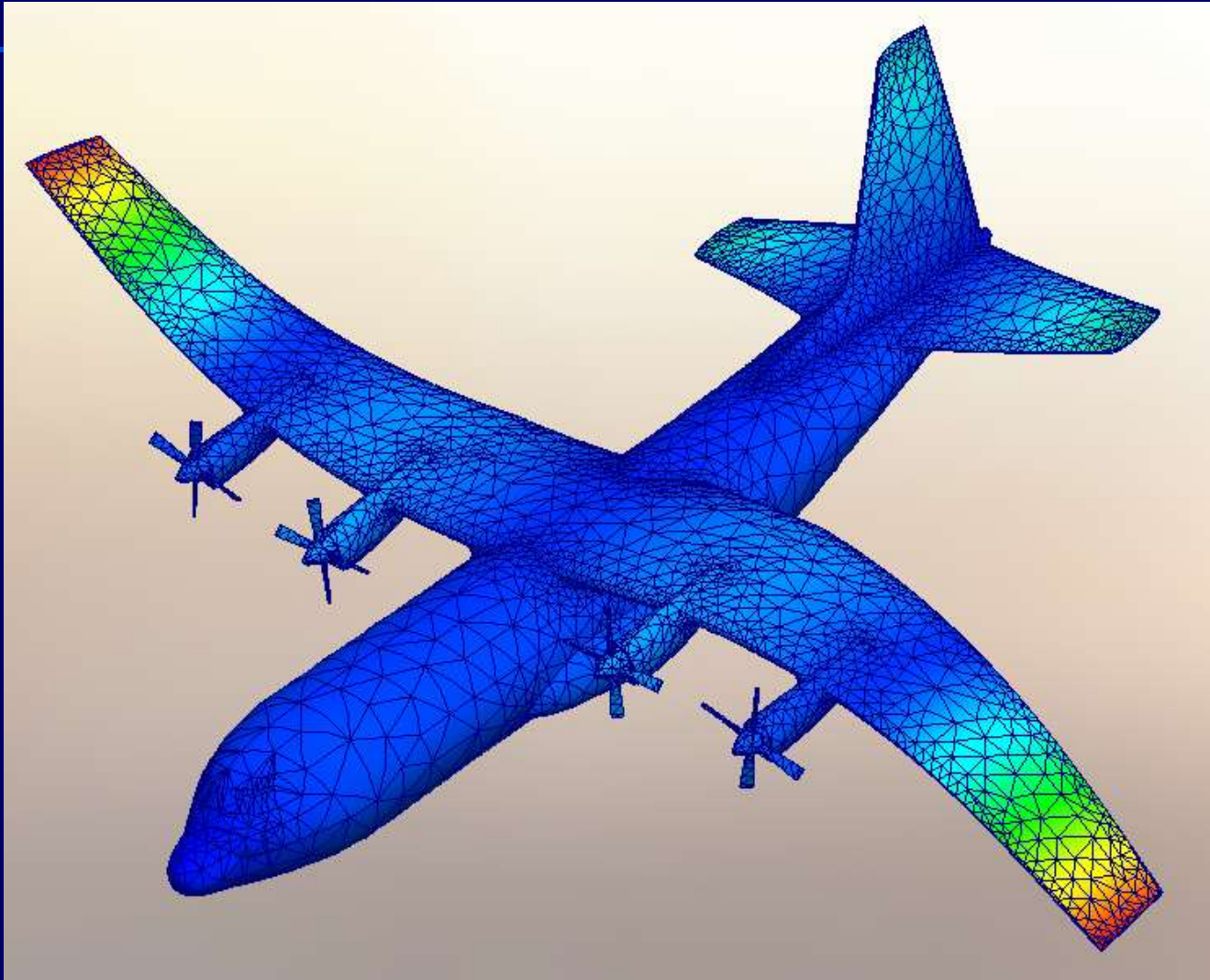
Mode shape 1



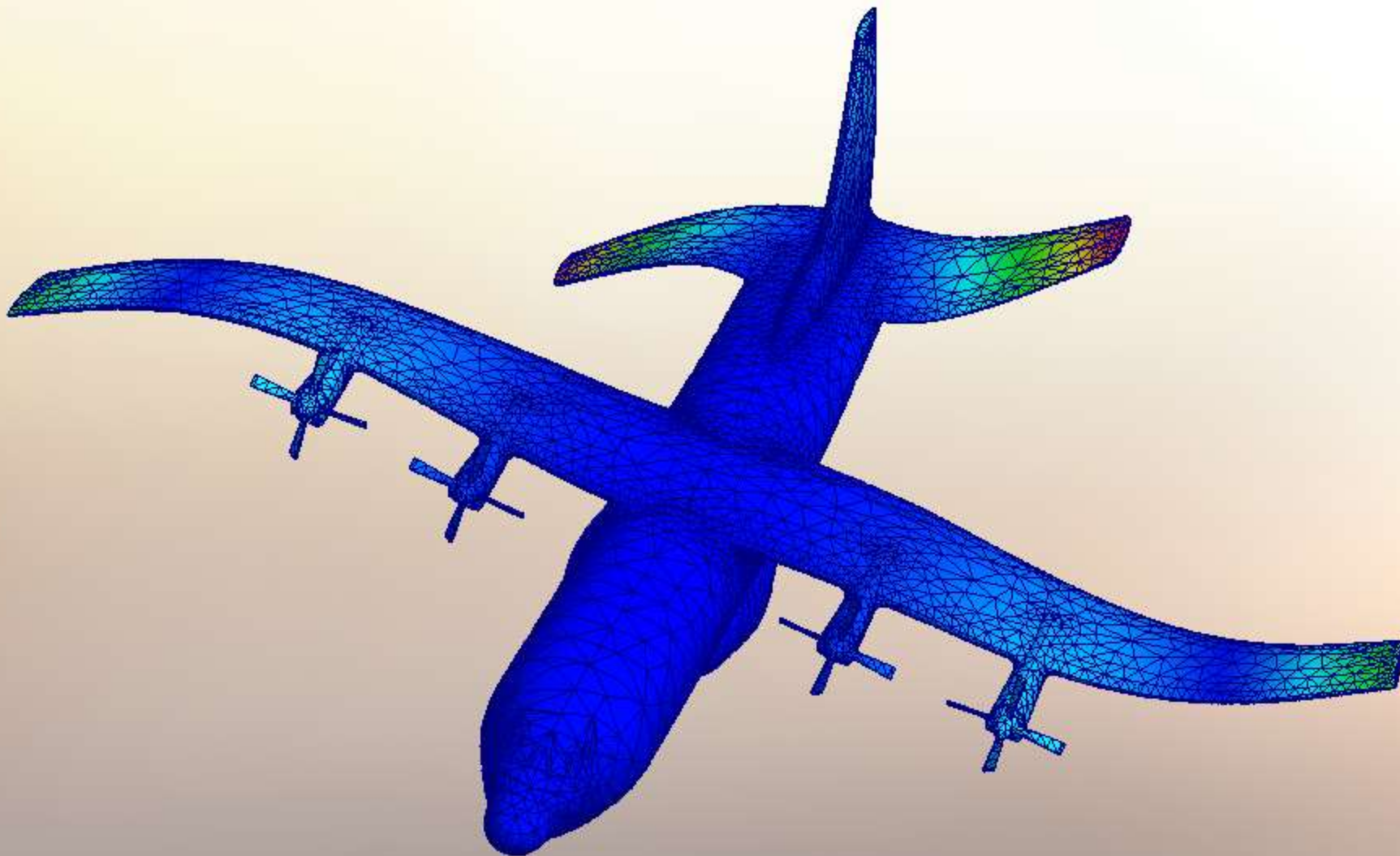
Mode shape 2



Mode shape 3



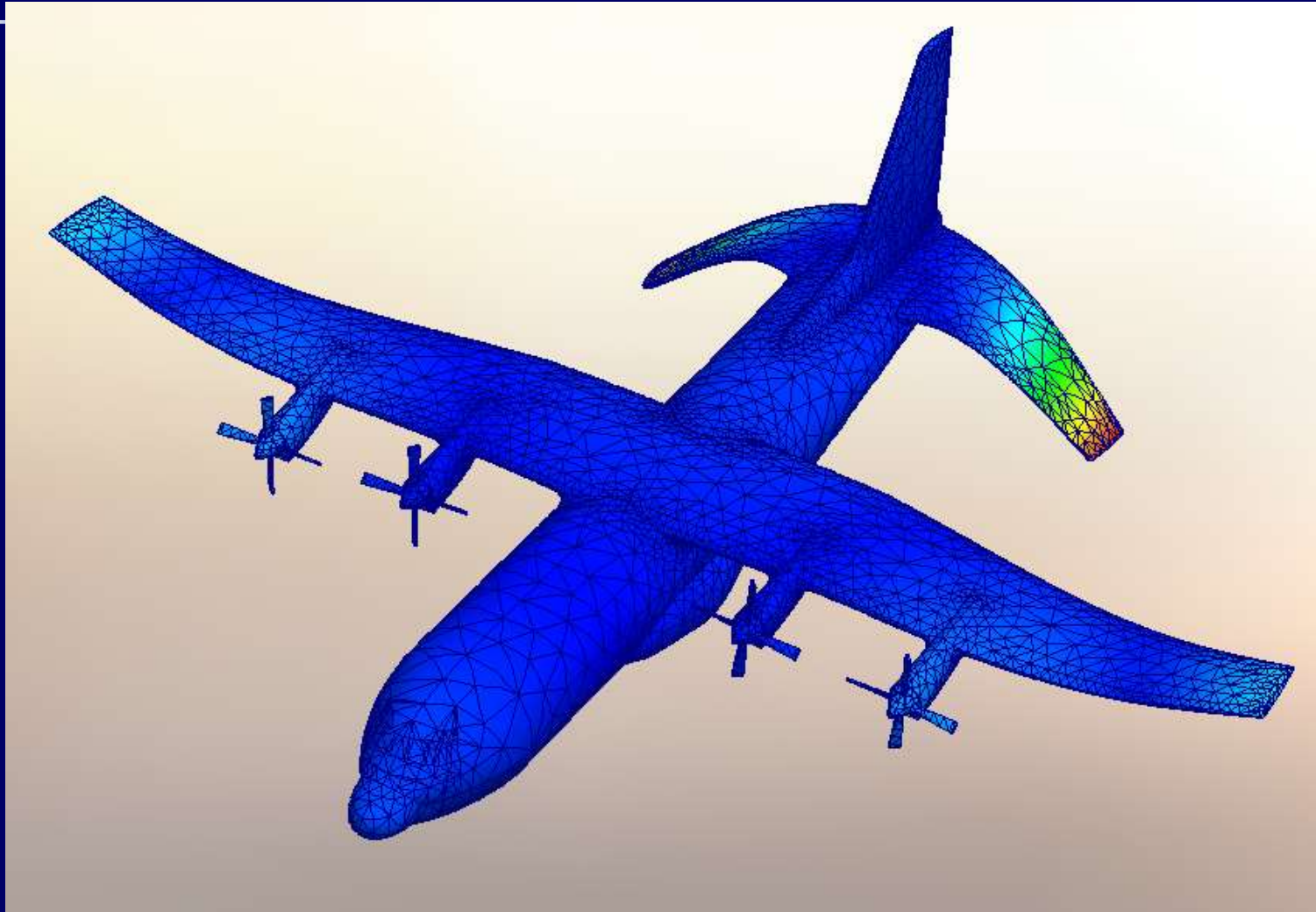
Mode shape 4



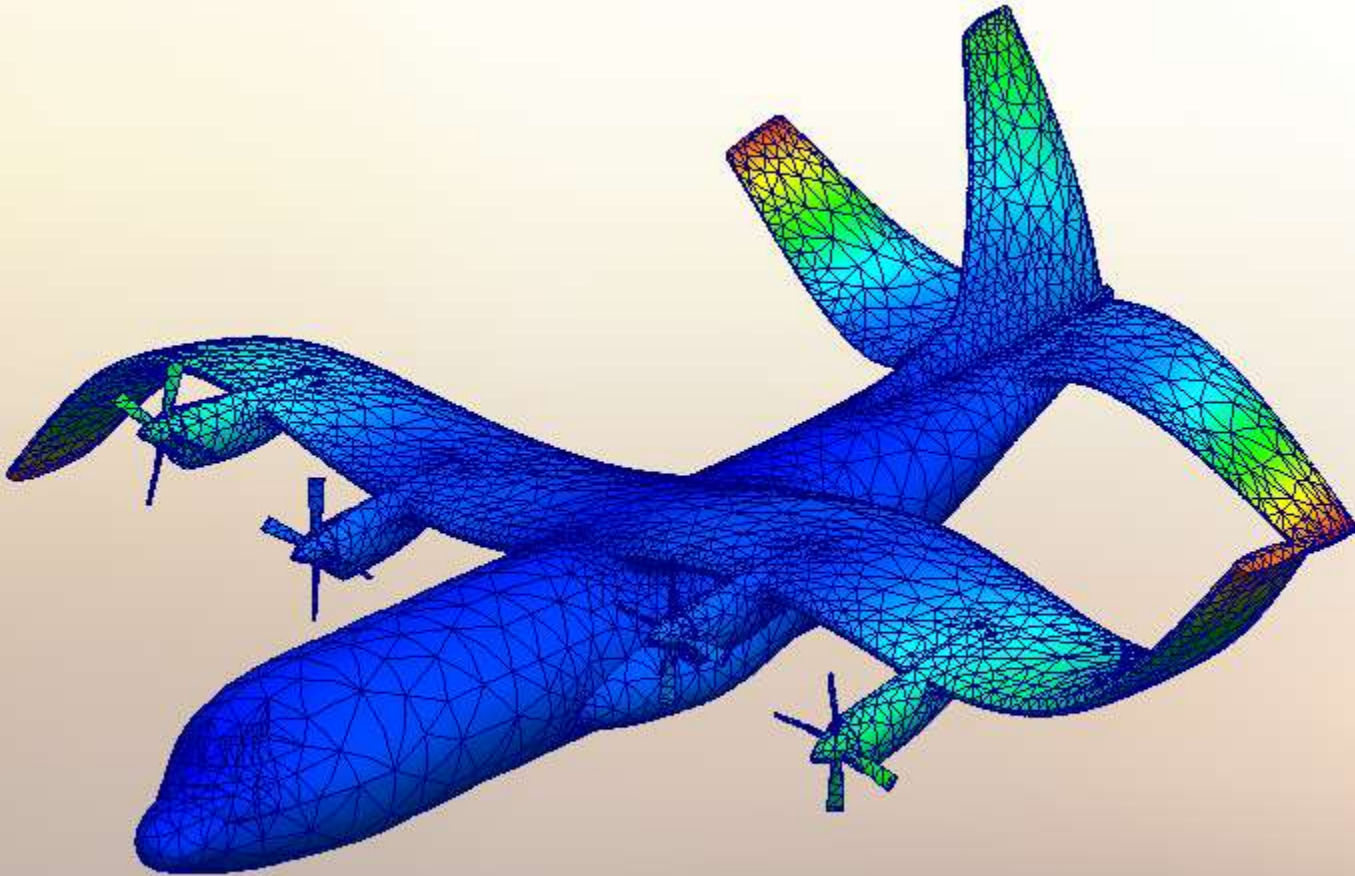
Mode shape 5



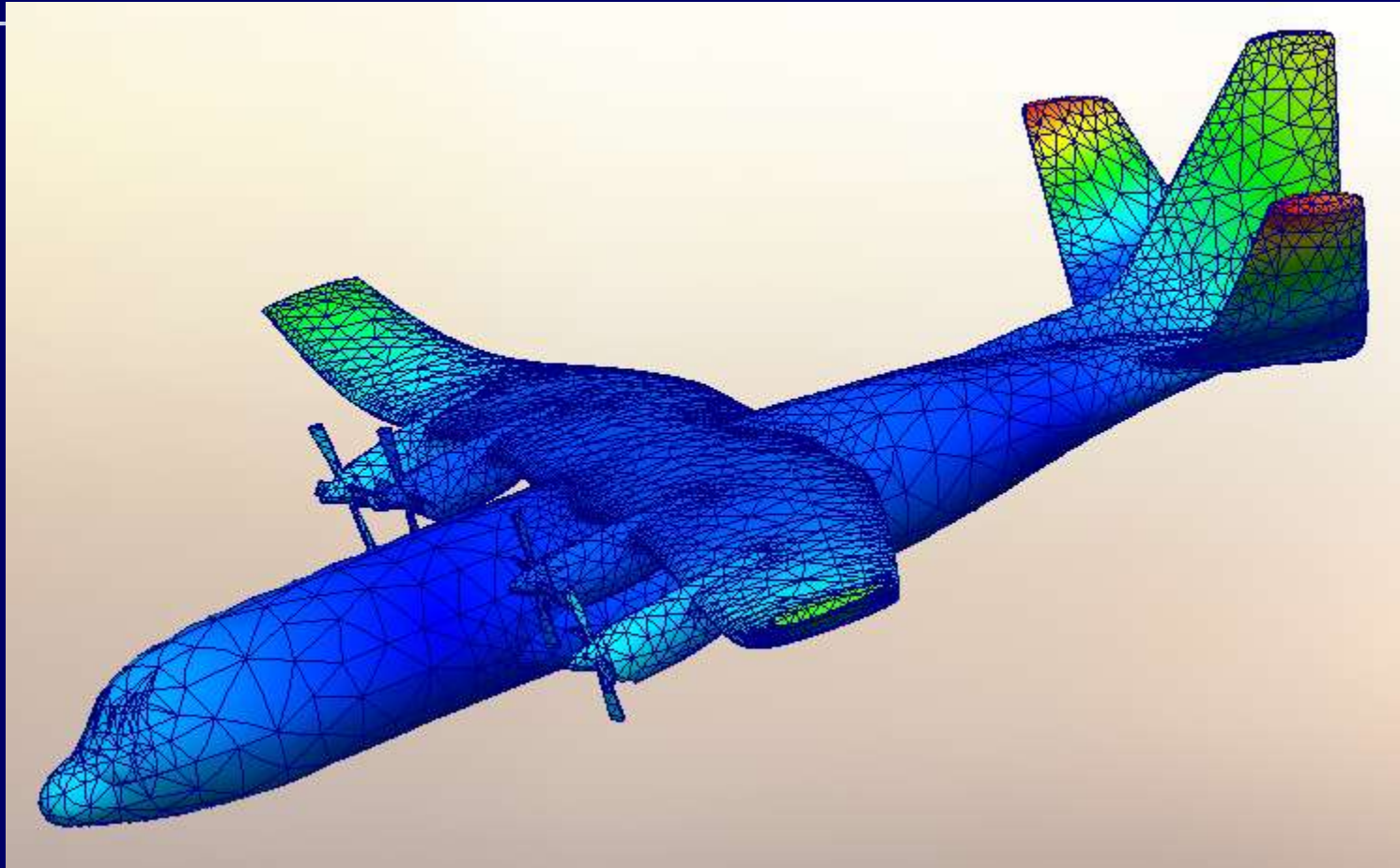
Mode shape 6



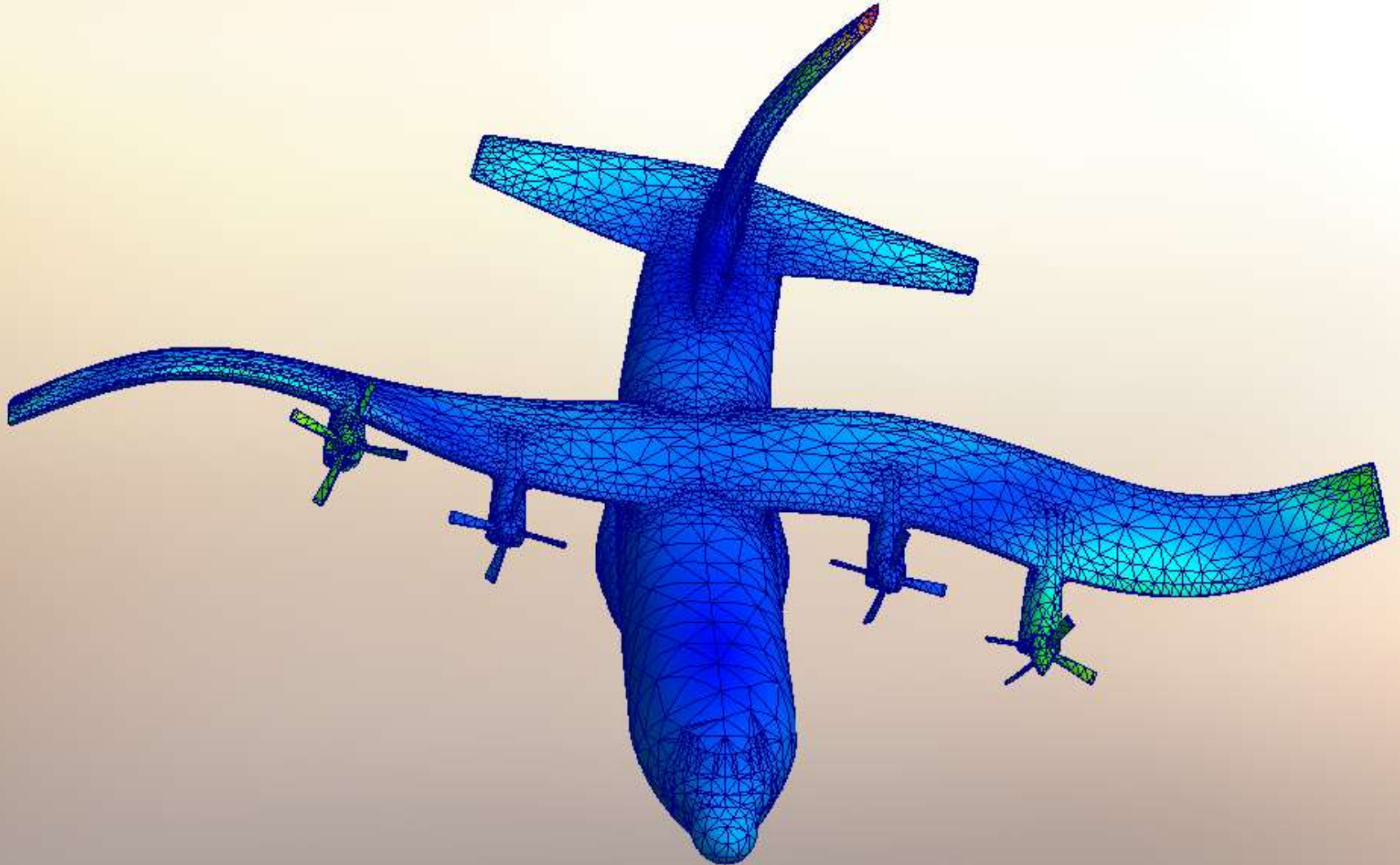
Mode shape 7



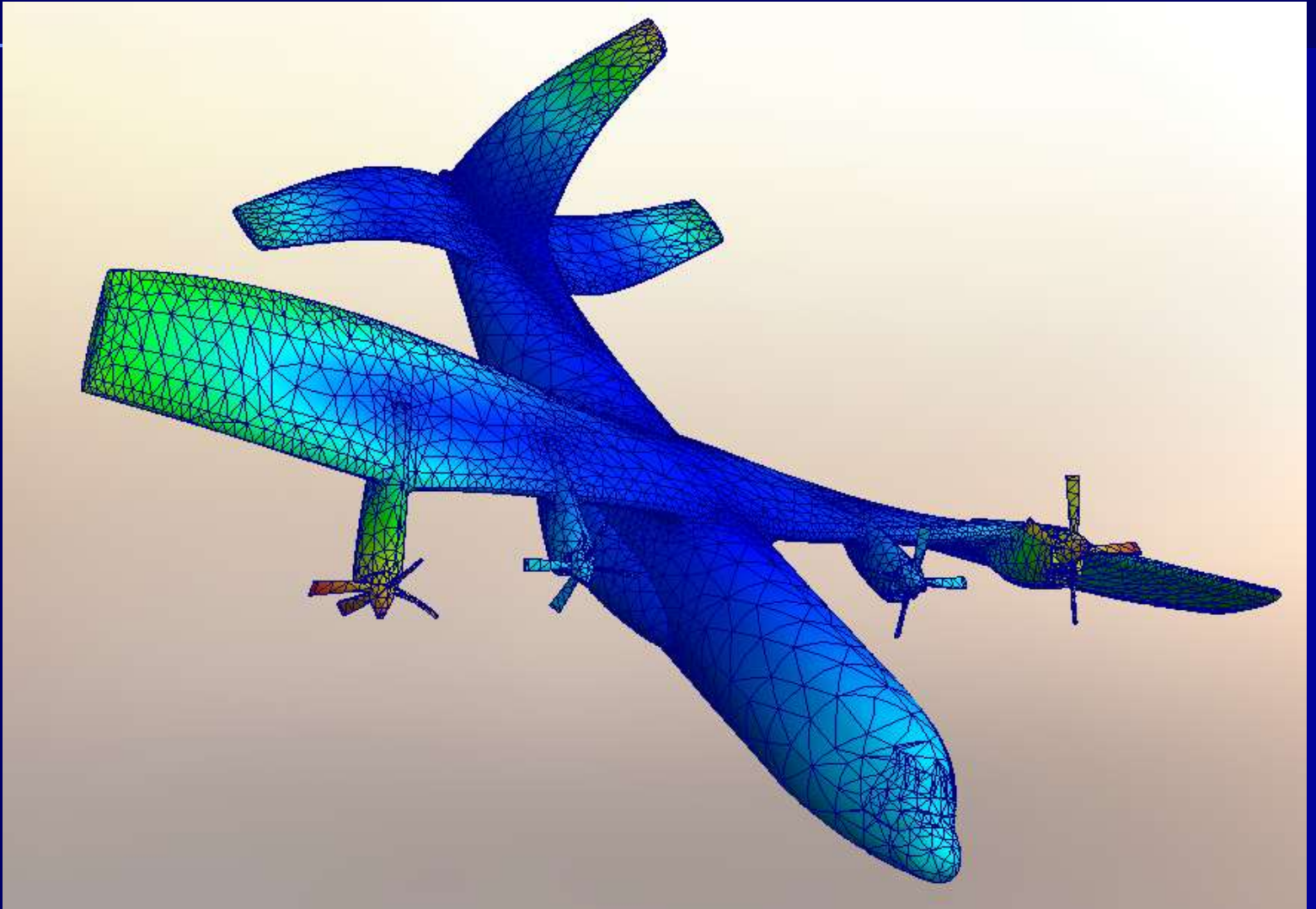
Mode shape 8



Mode shape 9



Mode shape 10



Mode shape 11

