

Deform to disk: Paraview versus Matlab

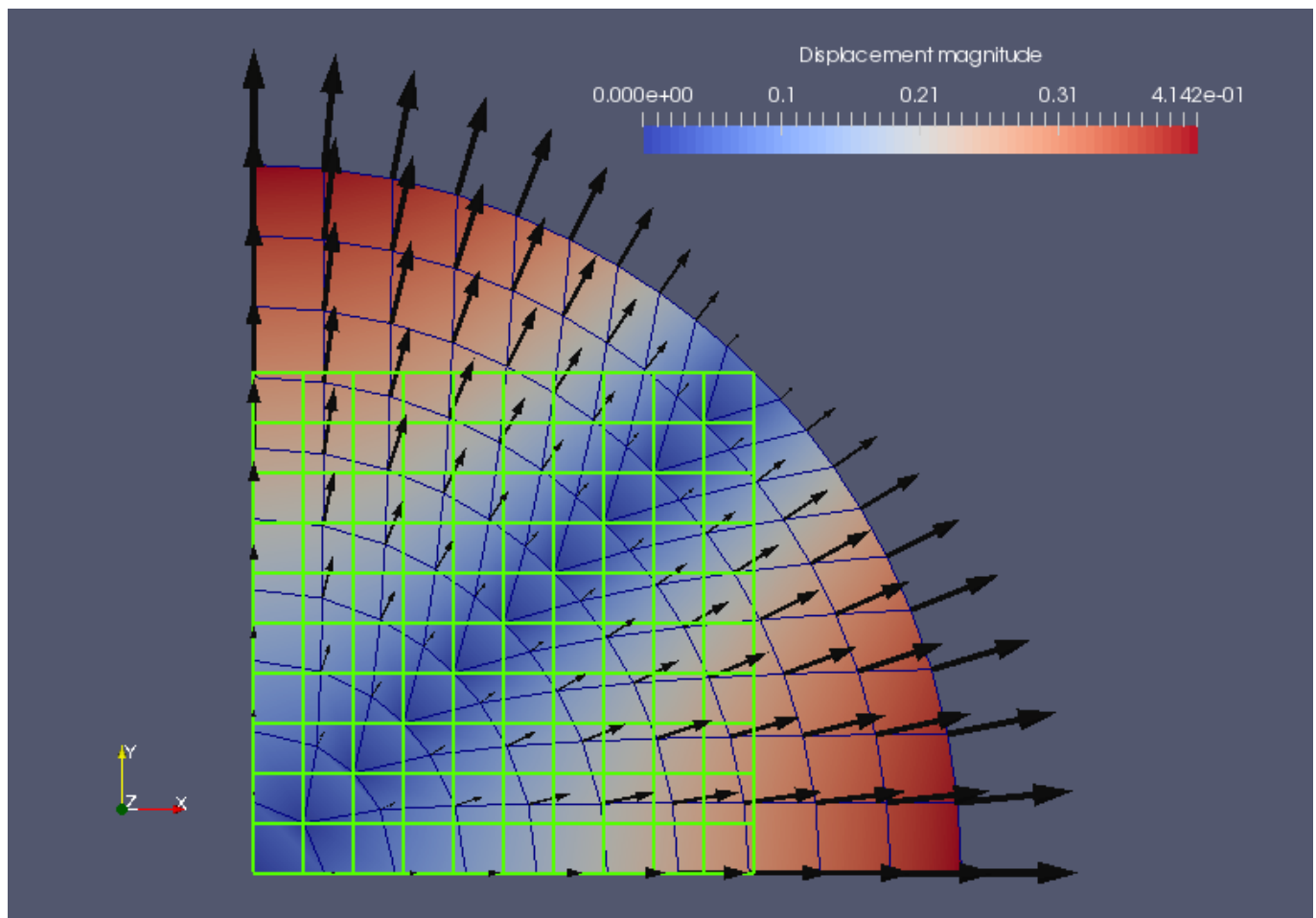
Problem definition

The problem is defined as follows: Given the domain of unit square $\Omega = [0,1] \times [0,1]$ find the displacement field $u(x,y)$ that deforms the square into a quarter of the disk, with the radius of the disk equal the length of square diagonal.

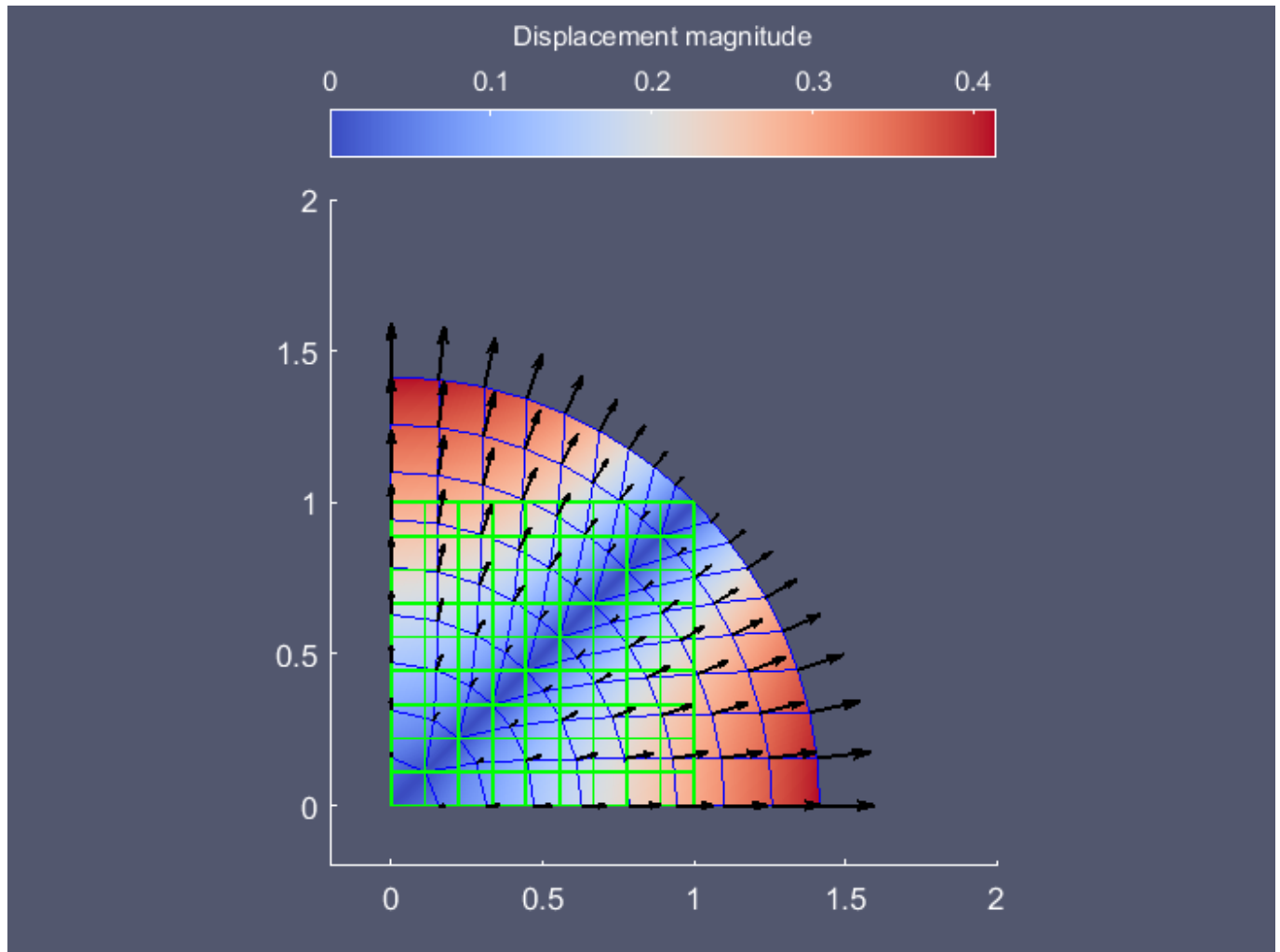
Paraview solution

Definition of the displacement field and subsequent visualization can be one at once in ParaView. To recreate image shown below you can load the following

ParaView state file



Matlab solution



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