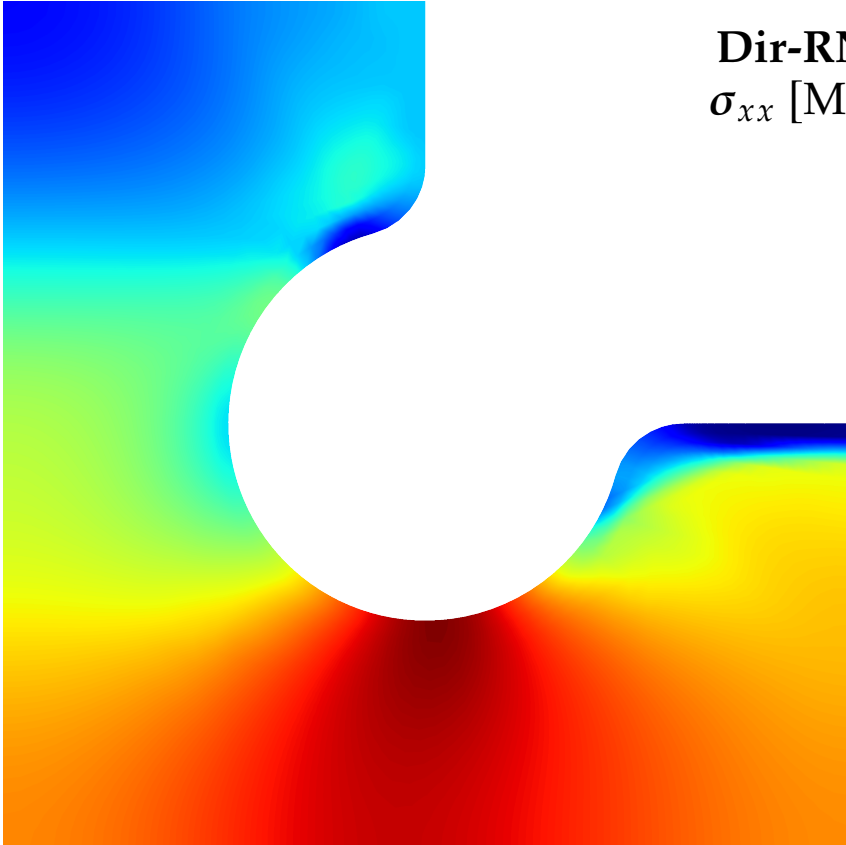
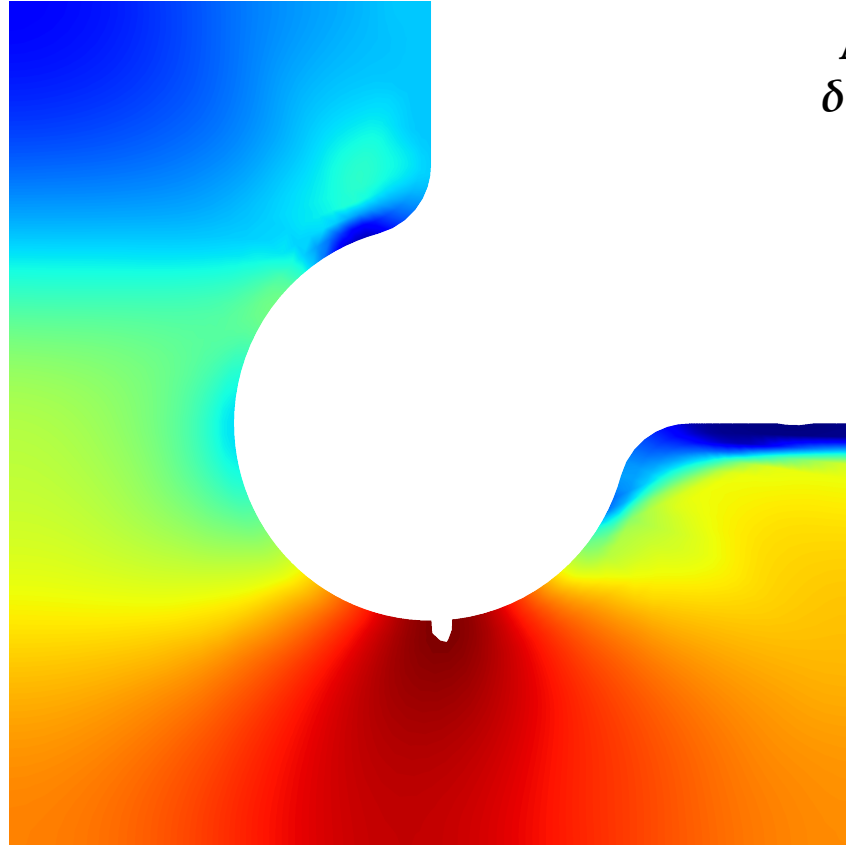


Abaqus
 σ_{xx} [MPa]

359.681
300.710
241.738
182.767
123.795
64.824
5.852
-53.119
-112.091
-171.062

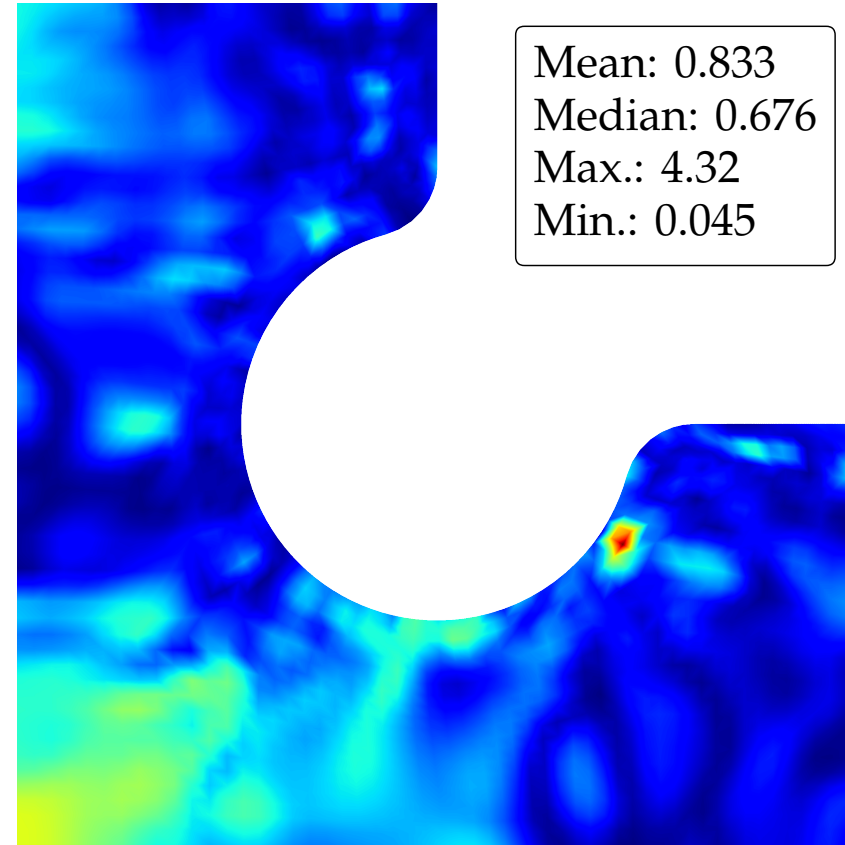
A color map of the stress field σ_{xx} from an Abaqus simulation. The domain is a rectangular plate with a large central circular hole and a smaller semi-circular notch at the bottom center. The color scale ranges from -171.062 MPa (dark blue) to 359.681 MPa (dark red). High tensile stress (red) is concentrated at the bottom edge and around the notch. Compressive stress (blue) is present in the upper half of the plate.

Dir-RNN
 σ_{xx} [MPa]

A color map of the stress field σ_{xx} from a Dir-RNN simulation. The domain and color scale are identical to the Abaqus plot. The stress distribution is very similar to the Abaqus result, showing high tensile stress at the bottom and around the notch.

Abs. error
 $\delta\sigma_{xx}$ [MPa]

4.320
3.845
3.370
2.895
2.420
1.945
1.470
0.995
0.520
0.045

A color map showing the absolute error $\delta\sigma_{xx}$ between the Abaqus and Dir-RNN results. The domain is the same as the previous plots. The color scale ranges from 0.045 MPa (dark blue) to 4.320 MPa (dark red). The error is generally low (blue) but shows localized peaks of higher error (yellow/red) near the notch and the bottom edge.

Mean: 0.833
Median: 0.676
Max.: 4.32
Min.: 0.045