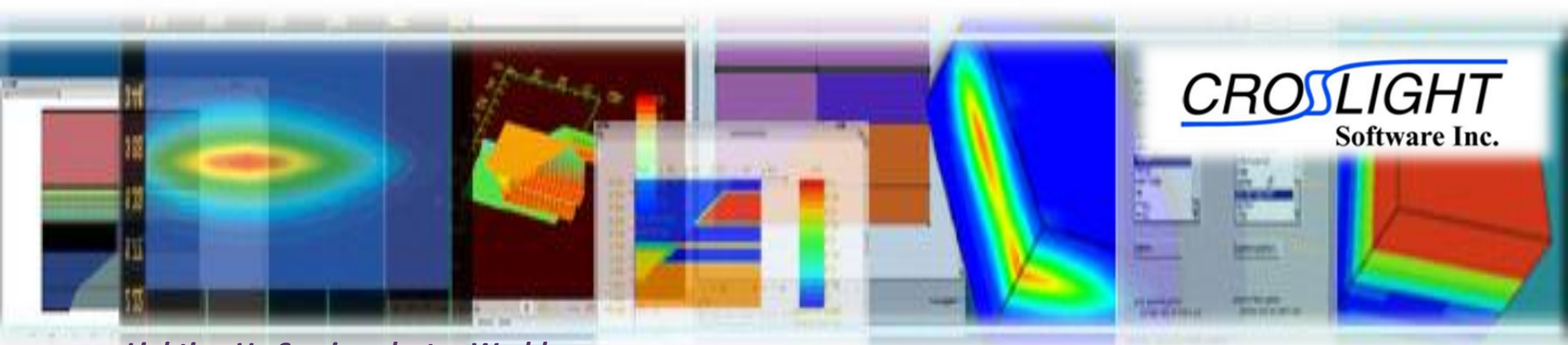
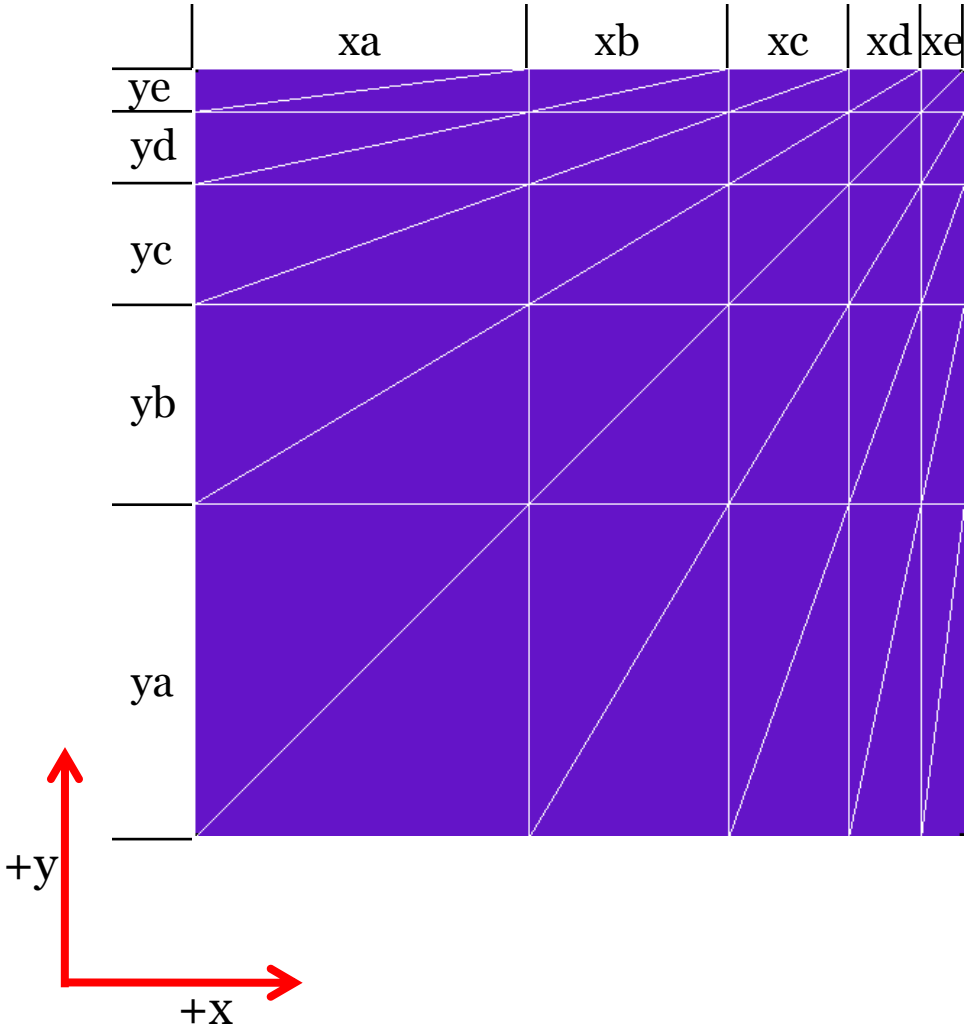


Crosslight Software Topic:

Ratio for mesh setting

Ratio for mesh setting

What’ s ratio?



For +x direction:

Ratio=xb/xa=xc/xb=xd/xc=xe/xd

For +y direction:

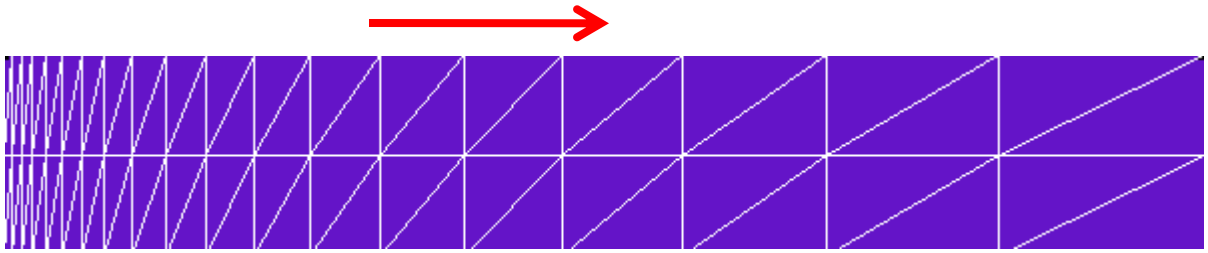
Ratio=yb/ya=yc/yb=yd/yc=ye/yd

Hint:

+x and +y are directions along which mesh points are orderly located. Please pay attention that mesh points can be located along any vector direction

Ratio for mesh setting

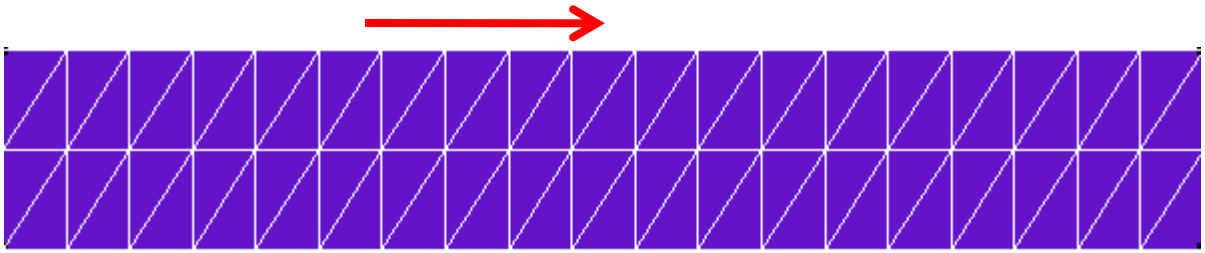
Ratio > 1



Mesh density decreases from left to right

Ratio for mesh setting

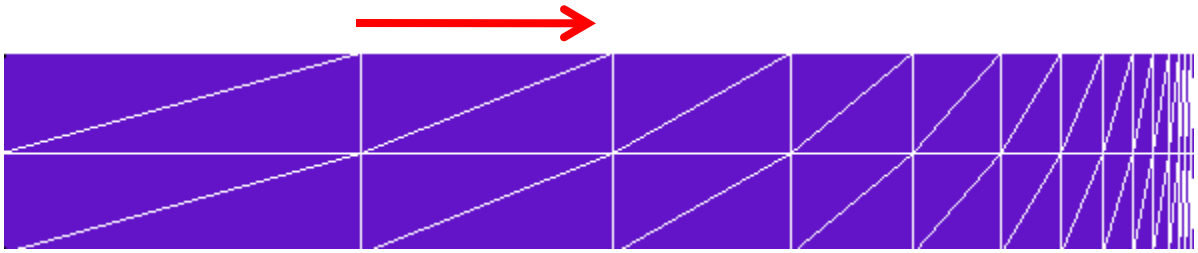
Ratio = 1



Mesh density is uniform

Ratio for mesh setting

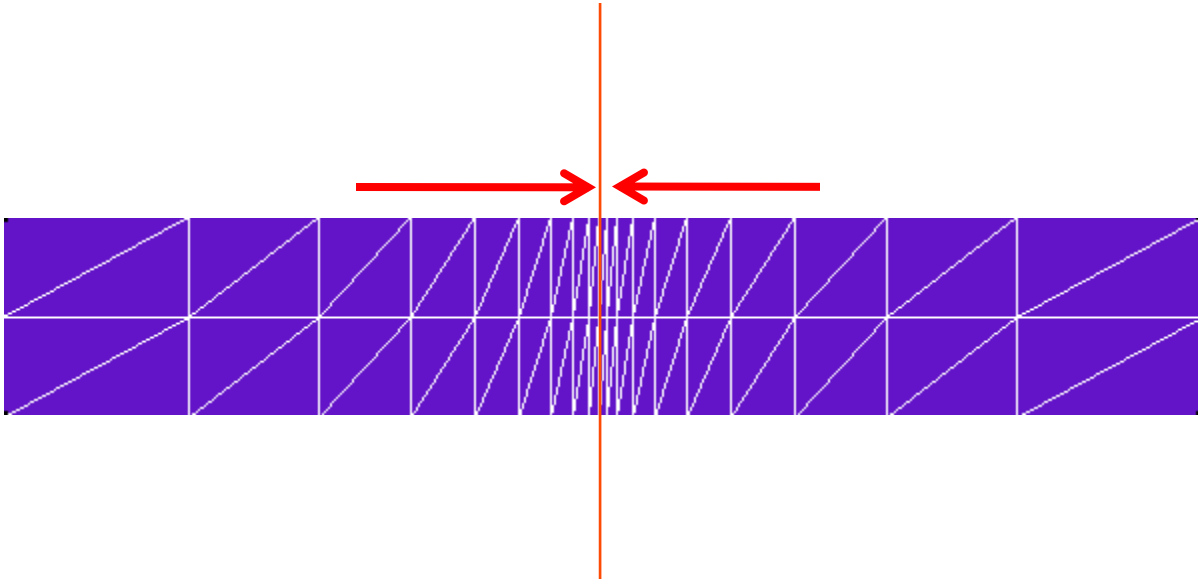
0< Ratio < 1



Mesh density increases from left to right

Ratio for mesh setting

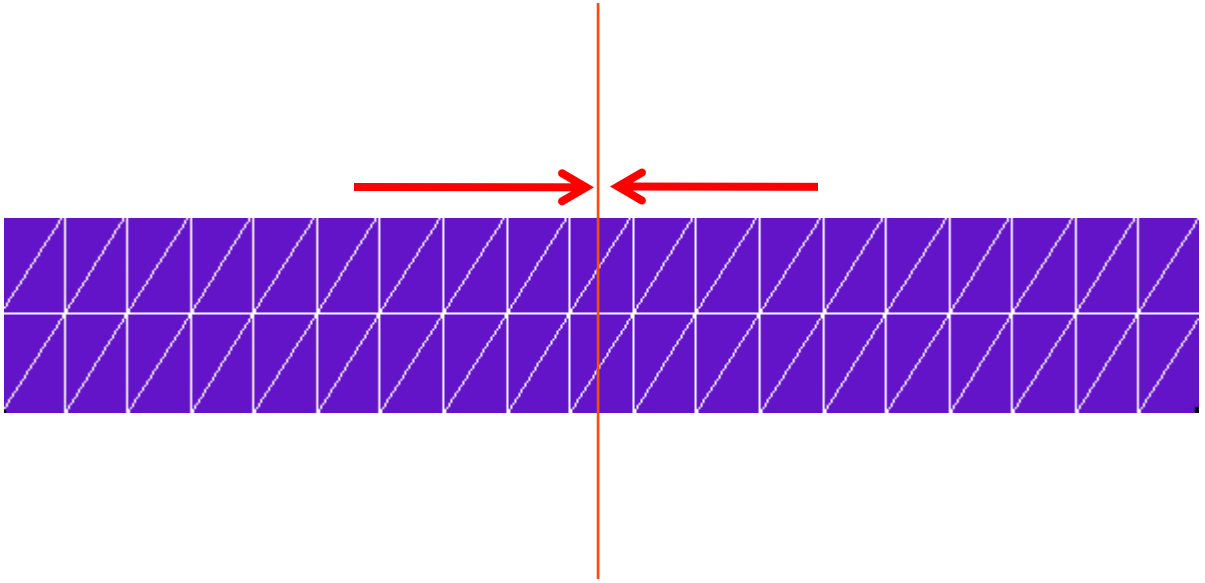
-1< Ratio < 0



Mesh density decreases from center to both sides

Ratio for mesh setting

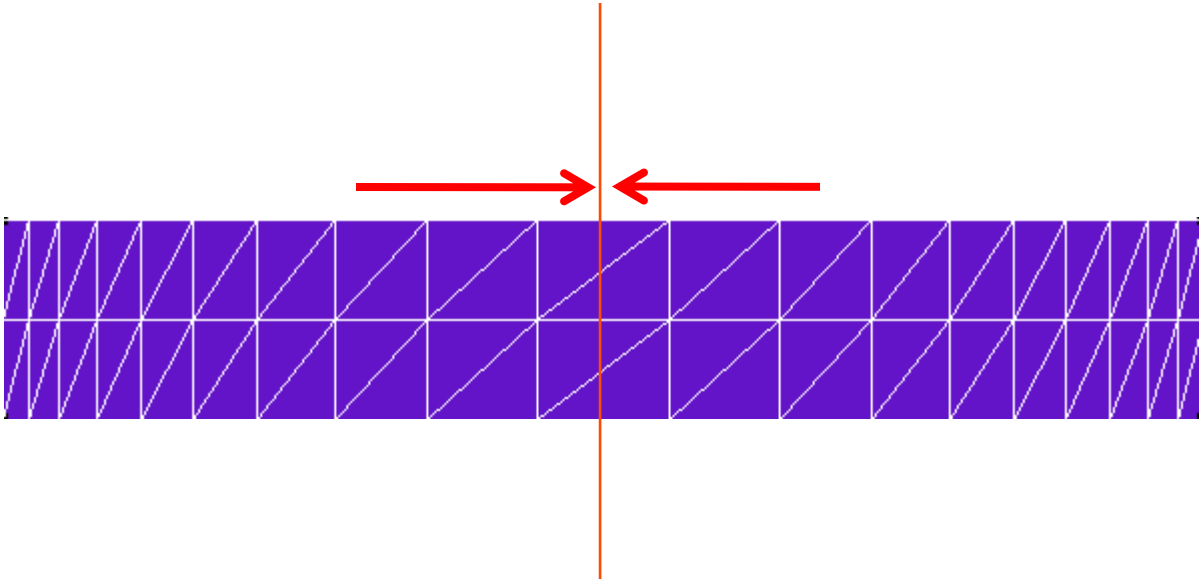
Ratio = -1



Mesh density is uniform

Ratio for mesh setting

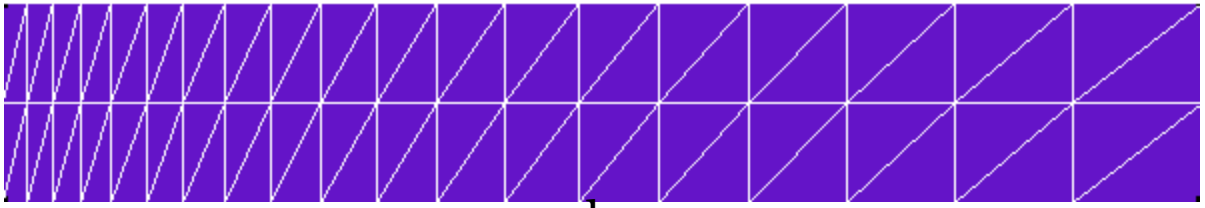
Ratio < -1



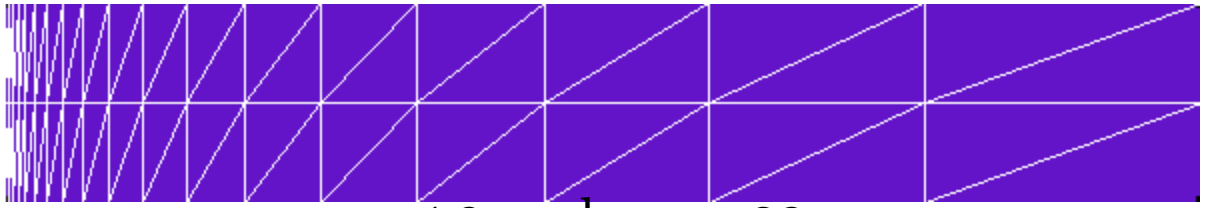
Mesh density increases from center to both sides

Ratio for mesh setting

Use ratio to control mesh



r=1.1 mesh num=20



r=1.3 mesh num=20

Absolute value of ratio controls how fast mesh density changes.

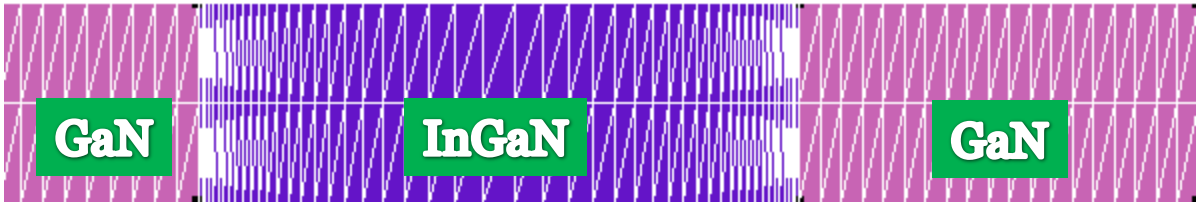
Ratio for mesh setting

Use ratio to control mesh

Use ratio to make large mesh density near heterojunction interface

Ratio for mesh setting

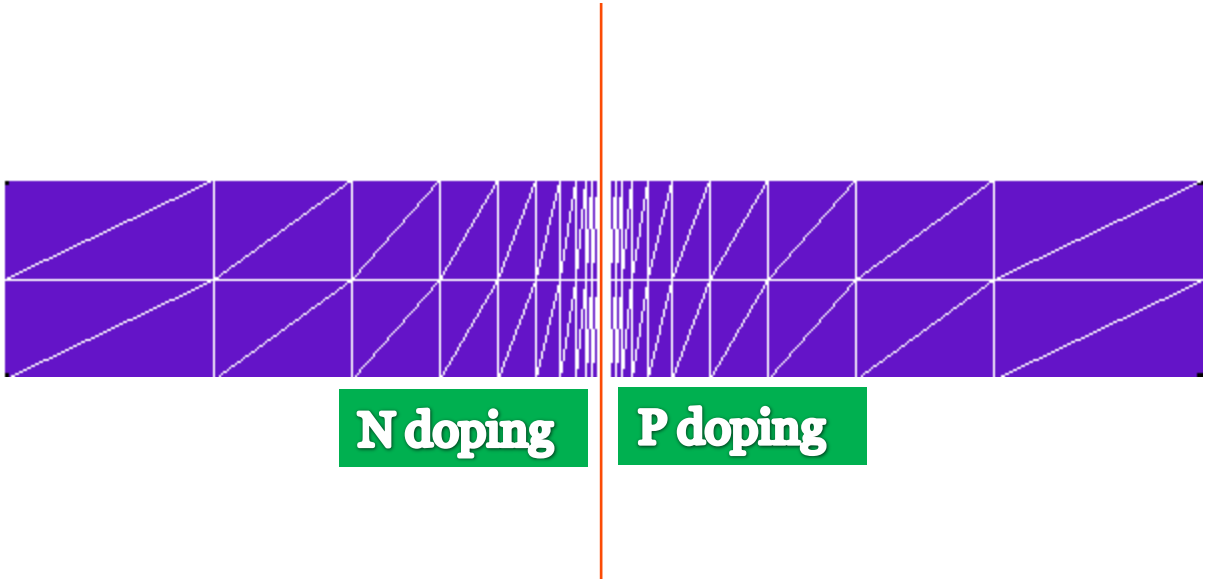
Use ratio to control mesh



Use minus ratio to make large mesh density near both side

Ratio for mesh setting

Use ratio to control mesh



Use minus ratio to make large mesh density near p-n junction in same mater

Ratio for mesh setting

Hint:
The upper settings are based on X direction. Situations are same for Y direction

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