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Features

Imaging maths – Inside the Klein bottle



The Triple Klein Bottle

JavaView Controls

<i>Left-Mouse</i>	Drag to rotate
<i>s</i>	Drag to scale
<i>t</i>	Drag to translate
<i>r</i>	Switch to reset
<i>w</i>	Enable auto-rotation
<i>q</i>	Stop auto-rotation
<i>Right-Mouse</i>	Show popup menu
<i>Shift-s</i>	Enable smooth drawing

Advanced

[JavaView Help](#)

The elementary building blocks of the Klein bottle may be slightly modified to produce several different geometric versions of the Klein bottles. Here we see a Klein bottle with a triple symmetry.

Every non-orientable tube is a Klein bottle. Here the tube has three inversions such that it is non-orientable. In fact, we can use increase the degree of symmetry to any odd number and always produce a topological Klein bottle. Even numbers yield an orientable torus.

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Imaging maths – Inside the Klein bottle
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