An MCNP6 Version of the Visual Editor

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History of the Visual MCNP Editor

1. Initially developed at Westinghouse Hanford Company in the early 1990s.
2. Development led by Dr. Lee Carter.
3. 1993: Initial paper published
4. 1997: Initial release to RSICC
5. 1999: First workshop offered
6. 2002: Windows version created
7. 2008: MCNPX version created
8. 2014: MCNP6 version created
What is the Visual MCNP Editor?

1. Visual Creation and Display of your Design.

Airplane analysis software

Rocket analysis software

Nuclear analysis software
Creating Geometries Using the Visual MCNP Editor
Creating Geometries
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Creating Geometries
Using the Visual MCNP Editor
3D Display
Particle Tracks
What is the Visual MCNP6 Plotter?

1. MCNP6 Plotter
   1. Geometry
   2. Tally
   3. Cross sections
2. Can not modify the input or create geometries.
Geometry plots

Color by Material

Color by Cell

Color by Density
Geometry plots

Color by Cell

Color by U

Color by IJK
Tally Plots
Tally Plots

Plot commands
Tally Plots

Hand entry
Cross Section Plots
Cross Section Plots
Mesh Tally Plots
1. Mesh tally data values are displayed.
2. All mesh plotting options available as part of the geometry plotter.
Tmesh Tally Plots
Fmesh Solid Tally Plot
Fmesh Gradient Tally Plot
Weight Window Mesh Plots