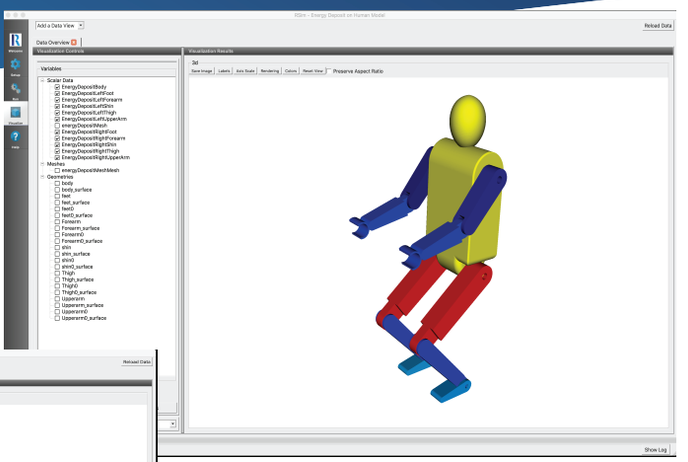
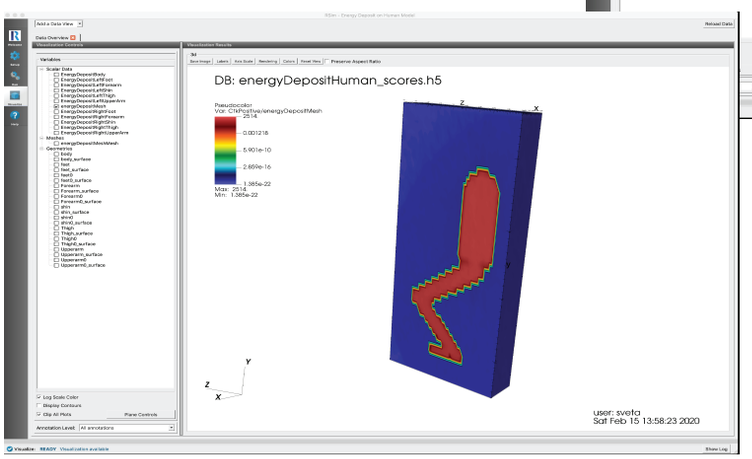
Radiation Modeling using Geant4

A Monte Carlo Application with a GUI and CAD Integration





Use the power of Geant4 through an easy to use GUI

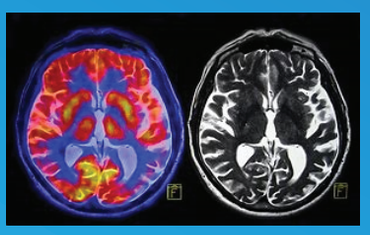
Model complex geometries

Set your simulation without C++ progamming or manual editing of input files

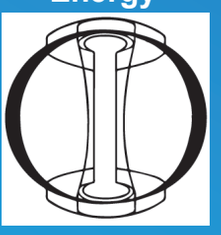
RSim is a cross platform application with a user friendly GUI that runs Monte Carlo simulations of radiation transport. Based Geant4, a well established radiation transport model, RSim offers an interactive GUI for design set-up and visualization. The powerful graphical analysis tool, VisIt, is embedded to provide qualitative and quantitative visualization capabilites.

RSim Applications

Nuclear Medicine

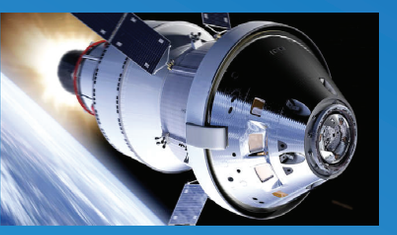


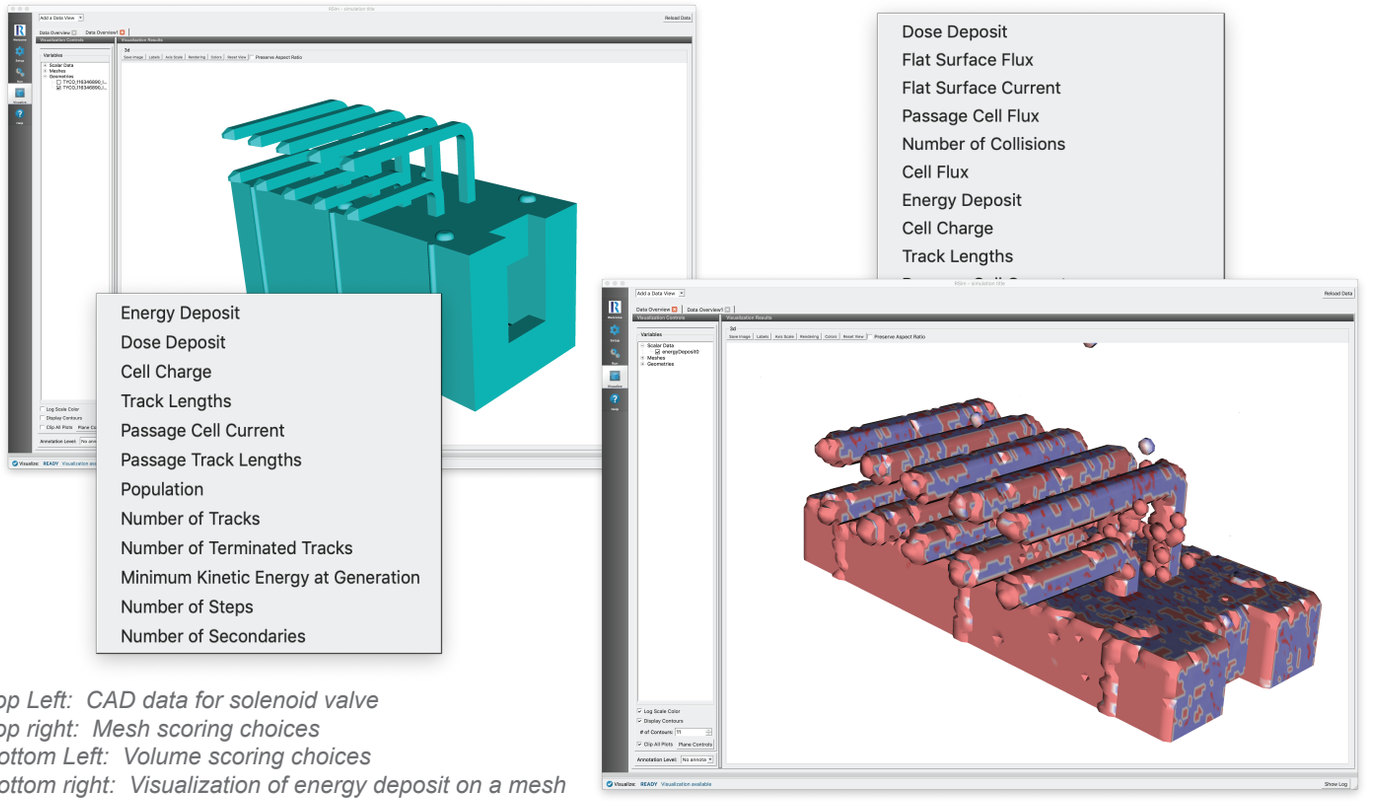
Nuclear & Fusion Energy



Radioactive Waste Management

Space Missions





Top Left: CAD data for solenoid valve
Top right: Mesh scoring choices
Bottom Left: Volume scoring choices
Bottom right: Visualization of energy deposit on a mesh

RSim Features

700 Material Database	New materials creation	Material annotation through the GUI and text
Boolean and array operations on CSG and CAD	General particle source support	Constructive solid geometry
CAD (STEP, GDML, H5M, and STL) import	Geometry export to STL, GDML, H5M, and Tetgens formats	
Multiple mesh and volume scorers	Volume and mesh scoring visualization	

TECH-X

ABOUT TECH-X

TECH-X is committed to technical excellence and innovation. We combine academic research with a commercial company sensibility to deliver high quality, cutting-edge software that takes advantage of the latest hardware

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