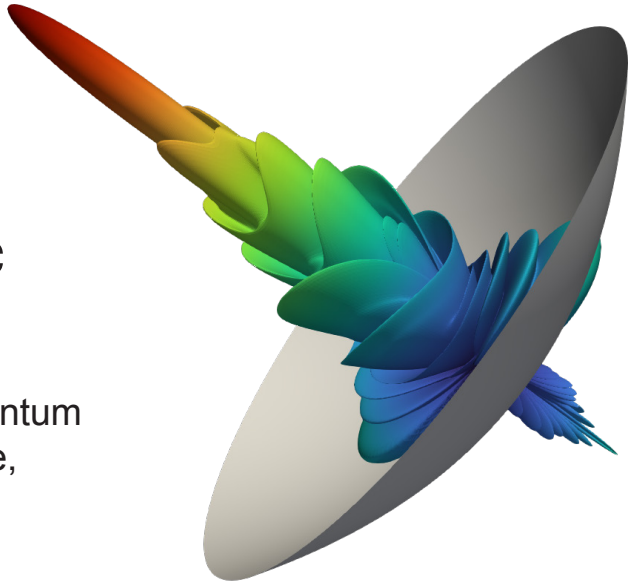
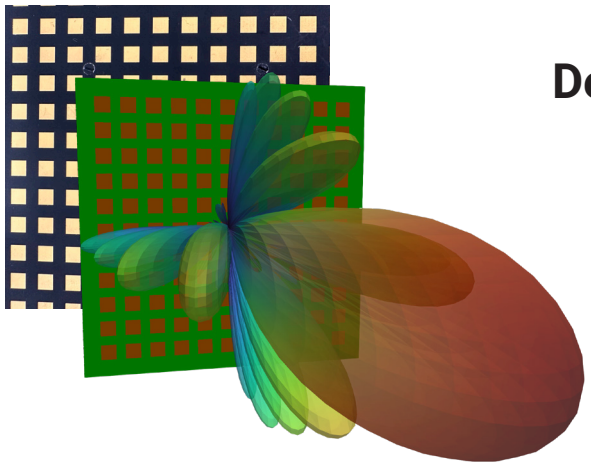
NULLSPACE

Engineering simulation software for electromagnetic applications

Developing products and solutions for RF and quantum computing applications across defense, aerospace, and automotive industries.



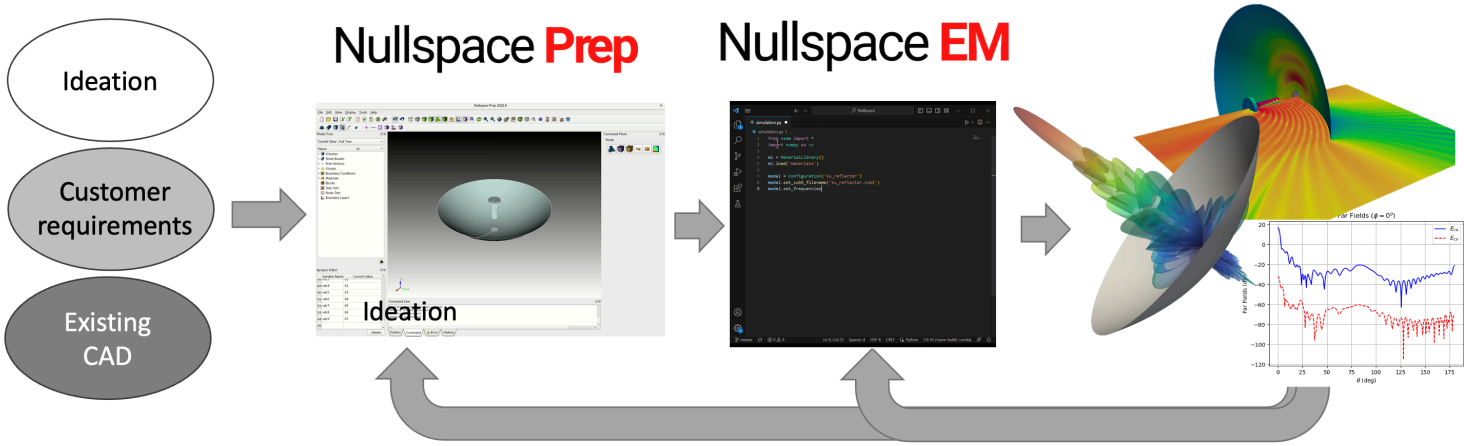


Designed for electrically large problems

- Unique, proprietary fast linear algebra libraries
- Multi-CPU and Multi-GPU acceleration
- High-order geometry
- High-order physics

Quickly modify CAD based on simulation results
Interface to any other tools with Python API or common data formats

The Nullspace Workflow



Powerful Python API

Parametric Analysis | **Optimization** | **Uncertainty Quantification**

Nullspace Prep

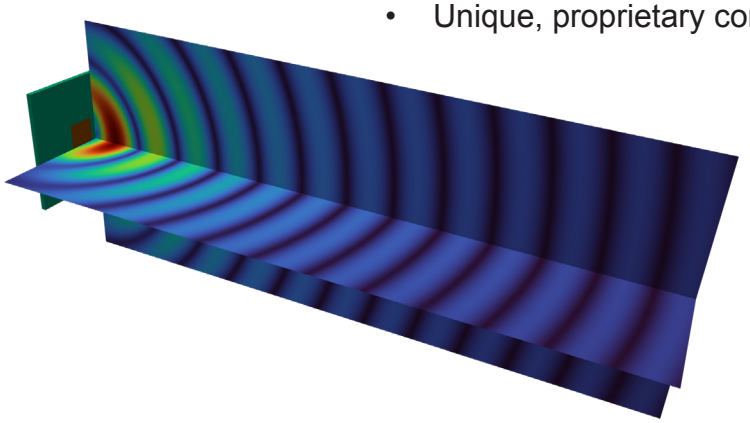
With Nullspace Prep, you can rapidly create CAD, allowing automated operations for extensive parametric studies and optimization.

- CAD and meshing pre-processor
- User-friendly GUI
- Import/Export many formats
- Powerful Python API

Nullspace EM

Nullspace EM has been developed and validated by against experimental data and real-word designs for 12+ years, with a focus on simulation speed and accuracy of the results.

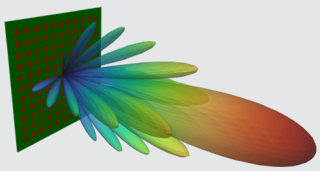
- Modern solver for realistic simulation and optimization of large, real-world problems
- Developed to run on many cores
- Accurately captures all physics
- Low geometry error
- Unique, proprietary compression algorithm



Applications

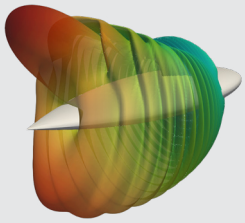
Antenna Design and Analysis

- Complex, multi-band antennas
- Placement and interference optimization
- 5G, defense, and aerospace applications



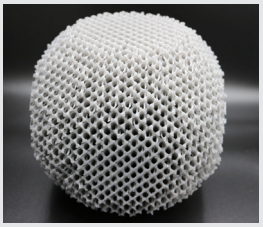
Radar Design and Analysis

- Radar detection for defense applications
- Unexploded ordnance and mine detection
- Remote sensing for planetary science



Optimization and Uncertainty Analysis

- Design optimization
- Generative design
- Parametric analysis
- Uncertainty analysis
- Generate data for AI training



Microwave Analysis

- 5G/6G wireless networking
- Radar components
- RF material characterization