# Time domain near field calculation for spherical geometries.

Near field calculation for spherical geometries. The code **near\_field\_convolution** convolves the results of a wide band near field calculation of spherical geometries by the mie series with a pulse defined in the time domain to give the time domain field at the centre of a sphere.

Run with the command:

**Near\_field\_convolution**

inputs:

time domain source file name (this expects a file in **field\_solve** format)

output number to use as the source

**.rcs** filename with near field data

File name for Fourier Transformed pulse

File name for time domain near field output

output:

The Fourier Transformed pulse output file has the format:

frequency real{Eincident} imag{Eincident} magnitude {Eincident} phase{Eincident}

The time domain near field output file has the format:

Time E field