Exercise 1

1. Choose a dielectric, complex and homogenous shape(s), and use orientation averaging.

2. Change equal-volume-sphere size parameter between 0.1 and 10.

3. Change dipole spacing kd between 0.1 and 1.0.

4. Change the grid size between 10 and 100.

5. Compare the scattering and backscattering cross sections, and asymmetry parameters to similar Rayleigh/Mie approximations, plot relative differences as a function of size parameter, grid size and dipole spacing.

6. Find a suitable combination of grid size and dipole spacing, and applicability range of Rayleigh/Mie solutions

Exercise 2

1. Choose a conductive (|m| > 10), complex and homogenous shape(s), and use orientation averaging.

2.-6. Same as in Exercise 1.
   Exception: dipole spacing kd varies between 0.01 and 0.1.
   Addition: also vary the polarizability definition from LDR (default) to FCD

Notice that FCD needs both -pol and -int options in A-DDA.