

Computational light scattering, project task 1

Compare two cases of single particles in their scattering properties. Possible comparison cases are

- particles with different sizes or in different wavelengths
- particles with different refractive indices
- particles with different shapes
- particles in fixed and random orientation
- same particles with two different codes

Use one of the single-particle codes introduced in the course, ADDA, DDSCAT, or T-matrix code for exact scattering by small particles, or SIRIS geometric optics code for particles much larger than the wavelength of light.

Show the results with figures of selected Mueller matrix elements of the particles. Show at least the intensities, preferably also some other element such as the degree of linear polarization.