



# Computational light scattering (PAP315)

## Lecture 7b

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# What you need for installing and running T-matrix code



- Linux/Mac/Windows+MSYS2  
with GCC gfortran compile



- Go to course web page
- Download the three files `tmd-lp.f`, `lpd.f`, `lpd.f`
- Compile with
  - `gfortran -o tmat -O1 lpd.f tmd-lp.f`  
to get executable called “`tmat`”



The code needs input parameters in a file. Download an example file `default.in` from the course page, as well as the article explaining the parameters

In the input file, there is always first a line with the parameter name, and then a line with its value.

- Run with the parameter file name as the argument:
  - `./tmat default.in`
- Will produce files “`test`” and “`tmatr.write`”
- The file `test` contains the Mueller matrix of the scatterer