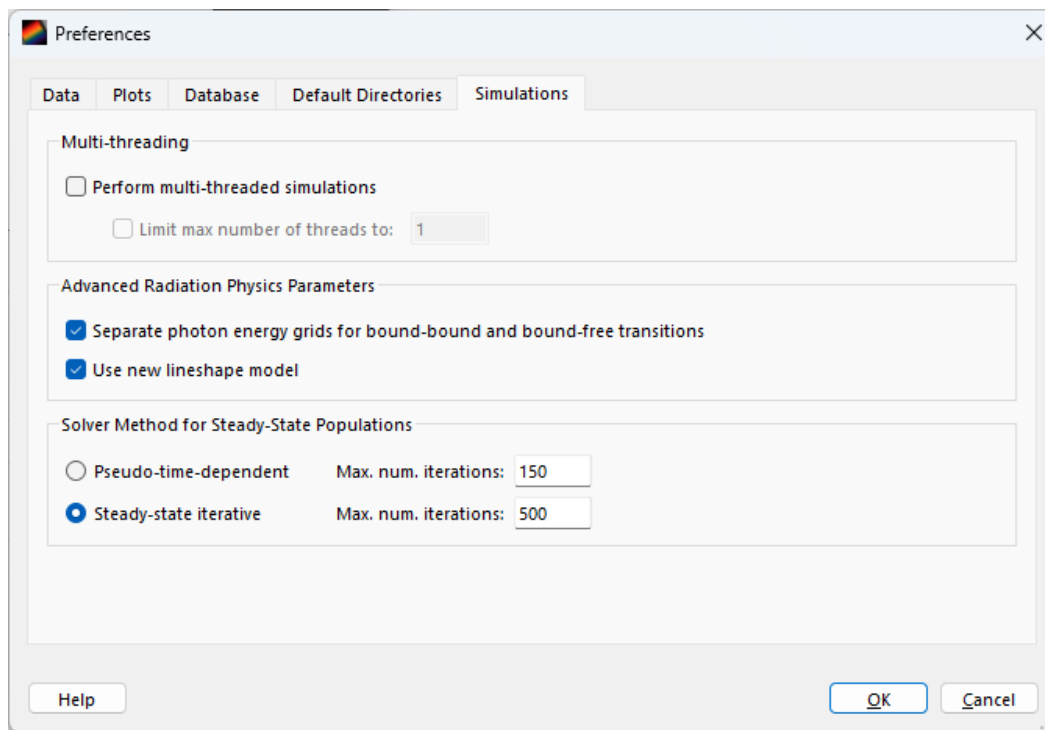


Revisions for PrismSPECT 9.1.0

- In the previous versions of PrismSPECT, for NLTE calculations with radiation-dependent rates included, the steady state solution of statistical equilibrium are obtained by a time-dependent solver to let the system of ordinary differential equations evolve until equilibrium is reached. In the current release, we implemented a new solver where a true steady state solution is obtained in each iteration for a given set of collisional and radiative rates. This new solver is more efficient for a broad range of problems because it often requires fewer iterations to converge, and needs less time per iteration. The choice of solver method for the populations can be specified in the preferences. The default is the new steady-state iterative solver.



- Bug fixes:
 - On some Windows computers that use scaled desktop resolution, corruption of graphics could occur. This behavior has been fixed.
 - Fixed potential crashes when using "Treat implicit multiply exited transitions in details" option for the elements with a large number of implicit transitions.
 - "Pressure" model with non-ideal gas now supports PROPACEOS files with Format 9.
 - Previously in the Spectra Viewer, two spectra with the same plasma conditions would collapse into a single spectra in the spectra list and plot window. This has been fixed where multiple spectra with the same plasma properties are be permitted.
 - Fixed a bug in the Spectra Viewer where spectra deleted in the Graphics Layer Controller of the plot window would not be deleted from the Spectra Viewer's spectra list.