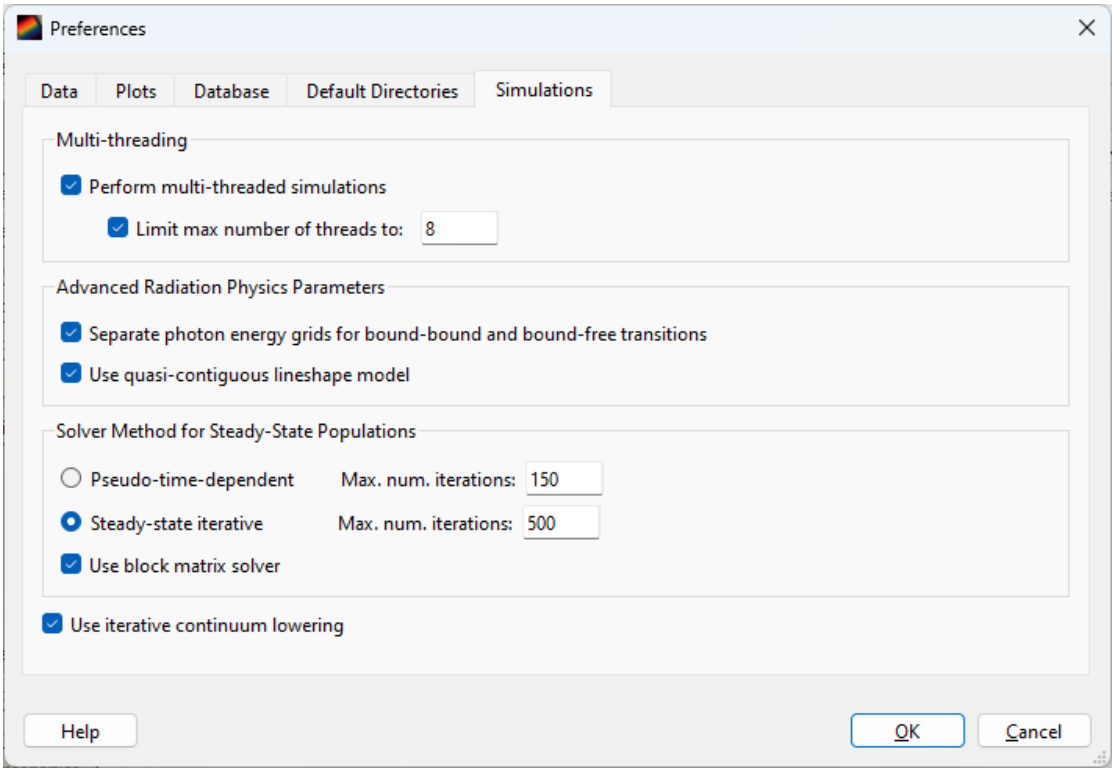
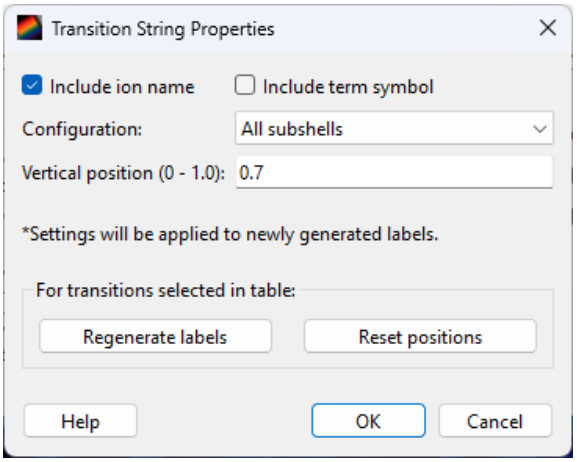
Revisions for PrismSPECT 9.5.0

- Improved continuum lowering model where the electron density and the amount of IPD are determined self consistently with a combination of iteration and bisection techniques was implemented. This model can significantly affect ionization balance, especially for low temperature plasma. More details on the model can be found in the appendix of the main documentation.
- Improved consistency in modeling IPD for mixtures of elements.
- New block matrix population solver for large atomic systems has been implemented. For atomic models containing over 20000 levels, the new solver is expected to use significantly less memory, and be faster by at least a factor of few. More details on the model can be found in the appendix of the main documentation.
- Improved models for ion contribution for Stark broadening. Previously, the effect of ion contribution could have been significantly overestimated at lower densities.
- Added support for new distribution of FAC atomic data (v. 1.5.0U).
- Updates were made to better support graphics on high-resolution monitors.
- Options were added to *Preferences* to control matrix solver and iterative continuum lowering.



- Added option to re-generate transition labels in the *Transition String Properties* dialog. The changes will be applied to all selected transitions.



- Built with Qt 6.2.10

- Bug fixes:
  - Improved placement of transition gridlines in the spectral viewer.