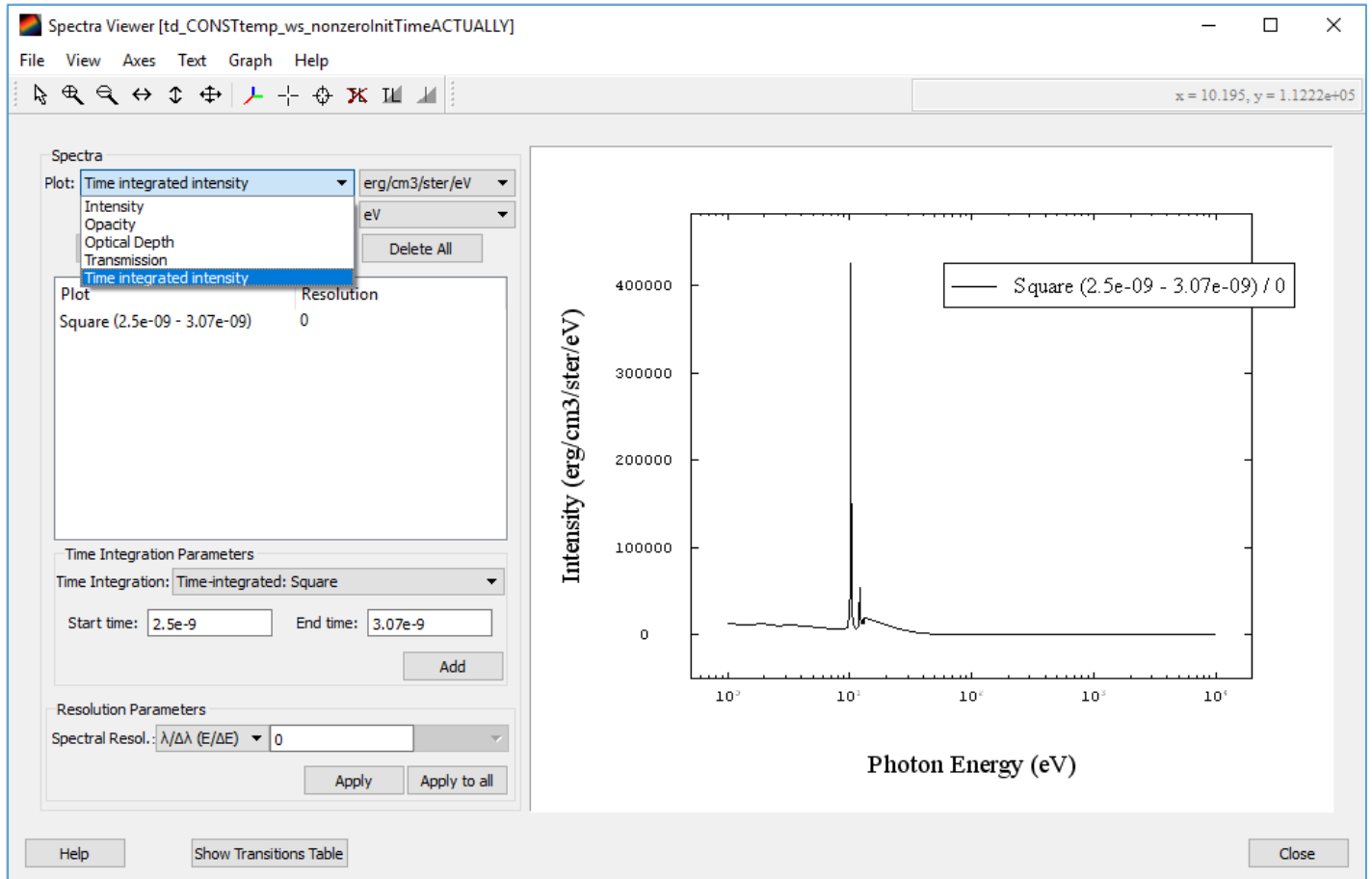


PrismSPECT 7.0.0

- Users can now produce time-integrated spectra, for simulations with multiple time steps. This option is part of the Spectra Viewer, and is selected from the combo-box in the upper-left:



A square gate (specified by initial and final times) or a Gaussian gate (specified by central time and FWHM) can be used.

- Increased number of significant figures for spectral output. Eliminated possibility for redundant photon energy points .
- Increased precision for level energy output in population output files.
- Occupation probabilities are written to population files.
- Added option to compute radiation heating rates. Note, non-zero values only for non-LTE calculations with finite size.
- Users can now input custom hot electron energy distributions using an ascii input file. See documentation for details.
- Bug fixes:
 - Dense plasma shifts for some ions could be erroneously ignored.
 - Crash when clicking Ionization button, after opening previous results workspace from OPLIB file simulations (select users only), has been resolved.
 - Error message related to finding default OPLIB file (select users only), which came up when opening results workspace using *PROPACEOS* data, has been removed.
 - When opening results of a previous calculation, transition rates were not calculated properly. (This was as opposed to viewing results immediately after running a calculation. In that case, the rates were correct.)
 - When opening results of a calculation with no independent variables (e.g., just one temperature and one density), viewing transition rates no longer leads to a crash.
 - Crash when accidentally inputting extreme (non-physical) mass densities has been resolved.
 - Previously, some Macs would produce warning pop-ups upon opening *PrismSPECT*, erroneously claiming to have found more up-to-date atomic data and *PROPACEOS* data directories. This has been fixed.
 - Fixed possible inconsistencies in computing radiation cooling rate. Note, non-zero values only for non-LTE calculations with finite size.