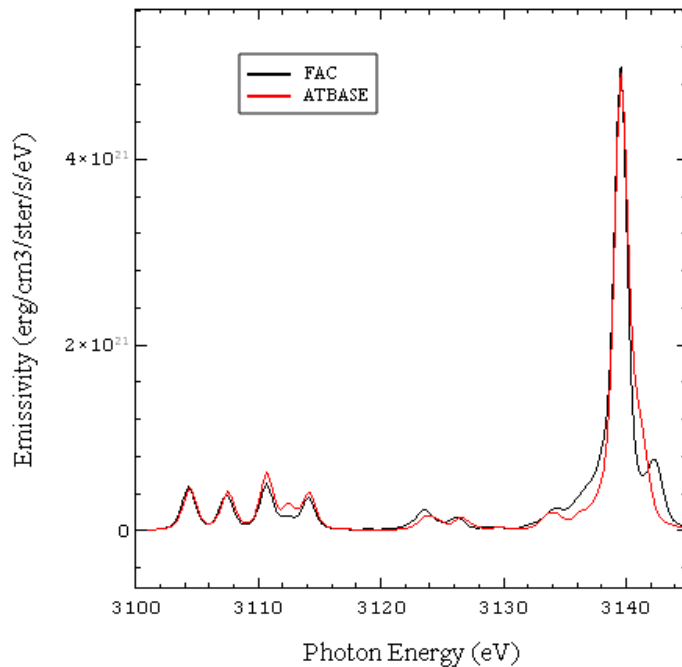


## PrismSPECT 8.0.0

- Implemented support for atomic data generated by FAC. For more details, see attachment titled "FAC Atomic Data in Prism Codes" in the main documentation.
- PrismSPECT will be distributed with a standard set of FAC-generated data. Custom user-generated data are supported as well. The data need to be generated with the latest version of FAC available at GitHub.



Simulation results for Ar-doped DD plasma at 600 eV temperature and 1 g/cc density computed with FAC and ATBASE data. Ar He-alpha transition and associated Li-like satellites.

- Added support for Big Sur operating system on both Intel- and M1-based computers.
- Bound-bound and bound-free transitions now use separate photon energy grids, which saves a lot of computation time for some types of calculations with many bound-free transitions. This new feature can be turned off by unchecking the box labeled "Separate photon energy grids for bound-bound and bound-free transitions" in the Simulations tab in Preferences (from the Edit menu).
- Linux users working in a KDE 5 desktop environment will likely experience very slow graphics performance. Use of KDE 5 is discouraged for the time being.
- Updated algorithms and libraries for software activation.
- Bug fixes:
  - Previously, spectral components were not shown correctly in some cases (though the total spectrum was correct). This has been fixed.