

Tutorial session 5 examples

1. ADAS205 Test Case

1. Move to your sub-directory `./.../uid>/adas/pass`. Start ADAS and go to the ADAS2 series sub-menu. Click with the mouse on the fifth button in adas2 series for ADAS205. The Input window for ADAS205 pops up.
2. Click on *Central Data*, the data root to data class ADF04 should appear in the window alongside. Click on the directory name *belike* in the file list window. *belike* appears above in the selection window. Click on *belike_jl1990o.dat*. It appears in the selection window.
3. Click the *Browse comments* button. Information of what is in the file *belike_jl1990o* is displayed. Click *Done* to restore the Input window. Click *Done* and the ADAS205 Processing window appears.
4. Click on the *Default Temperatures* button and then on the *Default Densities* button. [confirm the overwrite if necessary]
5. Click on the *Selections* button for metastable states. A pop-up list of all the levels appears. Click on the button beside the first level. Note that it darkens. It is a click on/click off button. Then click on its *Done* button to restore the full Processing options window.
6. Click on the *Done* button to proceed to the Output options window.
7. Click on the button for *Graphics* to display the graphics choices then click on the button for *Graphical Output*. Select *Graph Temperature* by clicking on the one you wish in the list. Choose the fifth one [1e4]. Click on the *Text* button to display the output data set choices. Click on the *Contour File* button and enter [*contour.pass{return}*] in the File Name editable window. Then click *Done*. The graph pops up. There are several graphs to look at. Finally click *Done* to restore the Output options window. Click the *Exit to Menu* icon to finish up. Finally click on the *Exit* button on the sub-menu and main menu windows to exit ADAS.
8. [*ls*] to see files created and note the collection file *contour.pass*. You may wish to list it to see its format.

1. ADAS207 Test Case

1. Move to your sub-directory `./.../uid>/adas/pass`. Make sure you have a *contour.pass* file there. Start ADAS and go to the ADAS2 series sub-menu. Click with the mouse on the seventh button in adas2 series for ADAS207. The Input window for ADAS207 pops up.
2. Click on *User Data*, the data root to you /pass sub-directory should appear in the window alongside. Click on *contour.pass* in the file list window. It appears in the selection window.
3. Click *Done* and the ADAS207 Processing window appears.
4. Click on the *Selections* button for the 1st composite line assembly. The window with the full list of lines pops up. Click on the buttons alongside the lines you wish for the numerator of the line ratio. These are on/off buttons. Note a button is darkened when activated and the program remembers the choice you made if you have had a previous run. Select transition 1 for the test. Click the *Done* button.
5. Click on the *Selections* button for the 2nd composite line assembly. The window with the full list of lines pops up. Click on the buttons alongside the lines you wish for the numerator of the line ratio. Select transition 3 for the test. Click the *Done* button.
6. Click on the *Done* button to proceed to the Output options window.
7. Click on the button for *Graphical Output*. Click on the *Diagnostic Contour Plot* button. This brings up contour plot choices. Click on the *Default Contour Scaling* button if not already selected. Then click *Done*. The graph pops up. Click *Done* to restore the Output options window. Click the *Exit to Menu* icon to finish up. Finally click on the *Exit* button on the sub-menu and main menu windows to exit ADAS.

3. Example 2

Experiment with the same data set in ADAS205 but edit in a solar relevant range of electron temperatures and densities. Proceed to form the *contour.pass* file. Now run ADAS207 with this *contour.pass* file. Try adding more lines to the two composites.

4. Example 3

Repeat the above but at the metastable selection in the ADAS205 Processing options window, select the first and second levels. Follow through the consequences to ADAS 207. Remember to obtain a contour output file from ADAS205.