


Pebbles and PebbleJuggler Release 2.0.1

Some **new 3D solid shapes** are now available:

- the circular cylinder lying on its side, as opposed to the upright cylinder which rests on its base;
- the **rod**, i. e., a circular cylinder lying on its side with both bases capped by an hemisphere; it should be useful to people studying semiconductor nanocrystals. (Do not use this shape to fit spherical NPs: you will not get anything useful)
- prism and pyramid with a rhombus (lozenge) as a base

The list containing the data describing each fitted nanoparticles model can now be **exported in a comma-separated (CSV) ASCII file** using this button . ASCII exporting allows one to analyze the morphological best-fit parameters with her/his preferred software. Just to be basic, such CSV file are easily imported in spreadsheet applications. As a consequence, improvements in PebbleJuggler are now rather low in my ToDo list. Recall that if you have MATLAB on your computer you can import lists as MAT-files: they will appear as arrays of structures in the MATLAB workspace.

The **default value of the p_cb_LoadImage_REMOVE_HOT_SPOTS parameter is now zero** meaning that the removal of hot spots from the displayed image is turned off. This improves image load time but displayed image might suffer from low (sometimes **very** low) contrast. If so, give a try to hot spot removal by setting p_cb_LoadImage_REMOVE_HOT_SPOTS to a positive integer value (say 256 for a 2k x 2k image). Press the button with the wrench icon in Pebbles to change the value of the p_cb_LoadImage_REMOVE_HOT_SPOTS parameter. BTW, hot spot removal affects the displayed image only, fitting is performed on the original image.

Other improvements (e.g. regarding redundant NP deletion) are transparent to the user.

AP, 26/05/2012