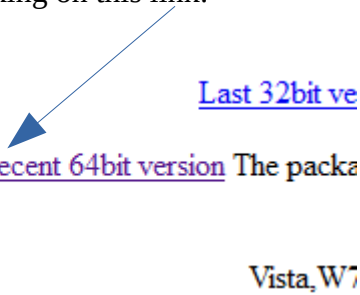
NanoPDF64 Quick Start Guide

1. Make sure you are running 64 bit version of MS Windows. It seems to be a standard these days but who knows.

2. Download “nppackageXXXXX.zip” file by clicking on this link:



Unpack the “nppackage” folder to your Desktop

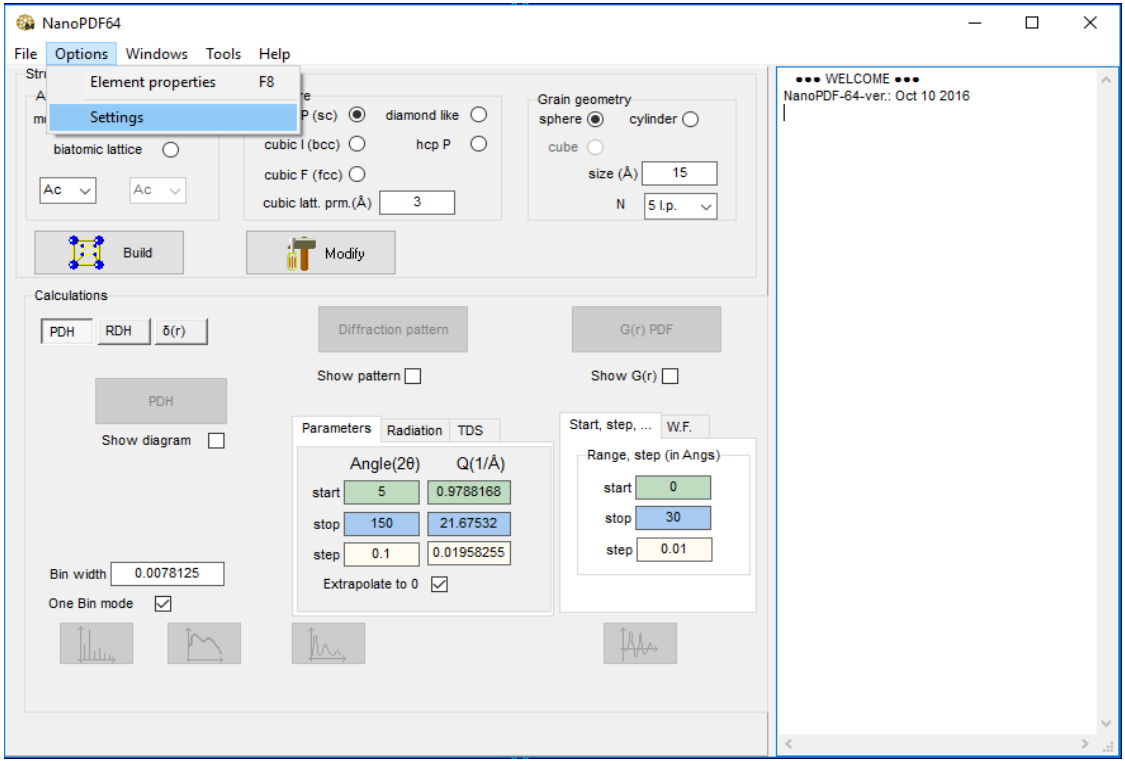
3. Download the file rastop.2.2.zip from RasTop's home page:
http://www.geneinfinity.org/rastop/index.htm#download

or directly from Sourceforge:
https://sourceforge.net/projects/rastop/files/latest/download?source=typ_redirect

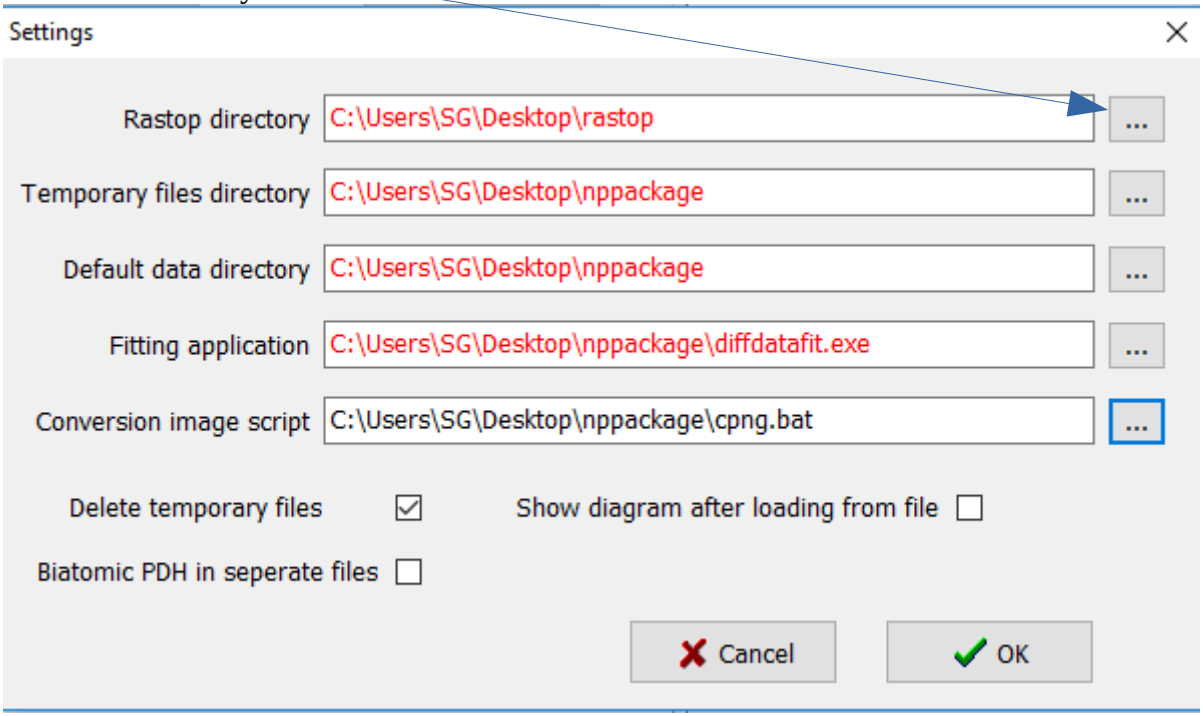
Unpack “rastop” folder to your Desktop

4. Run NanoPDF64.exe from the “nppackage” folder on your Desktop.

5. Select Options → Settings

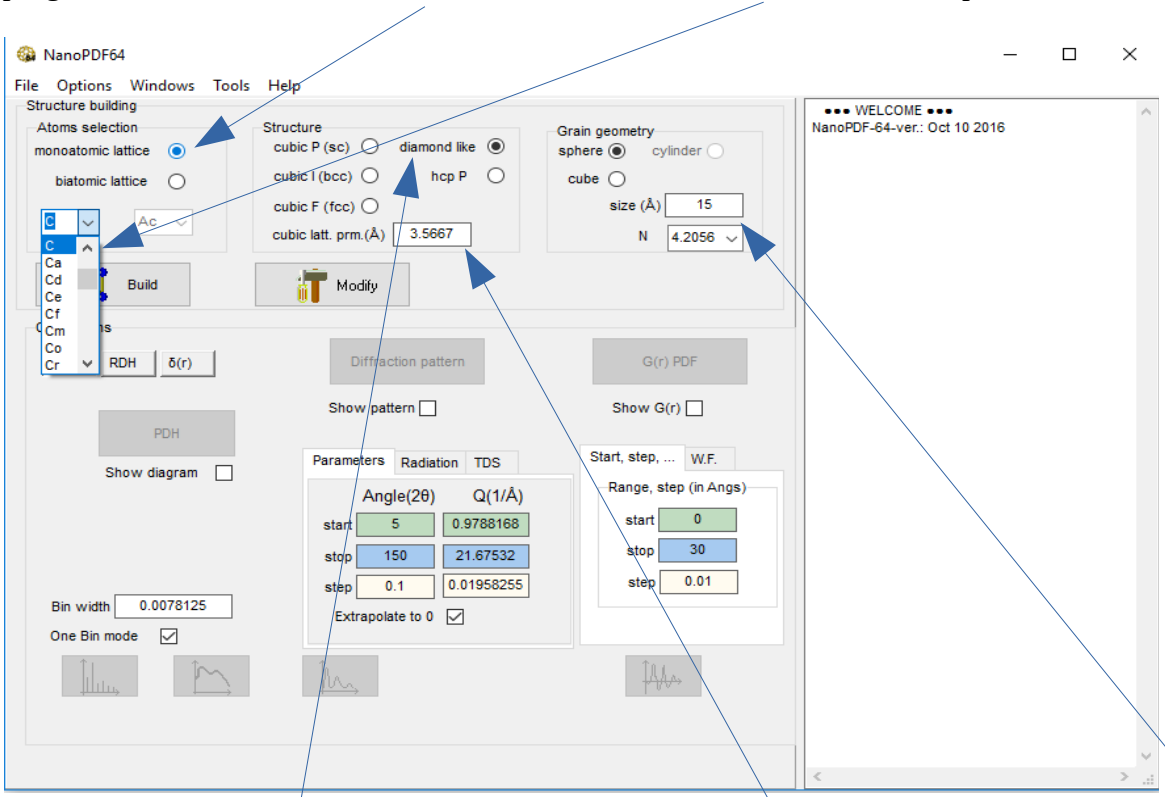


6. Set the required entries:
Use these buttons to search your disk



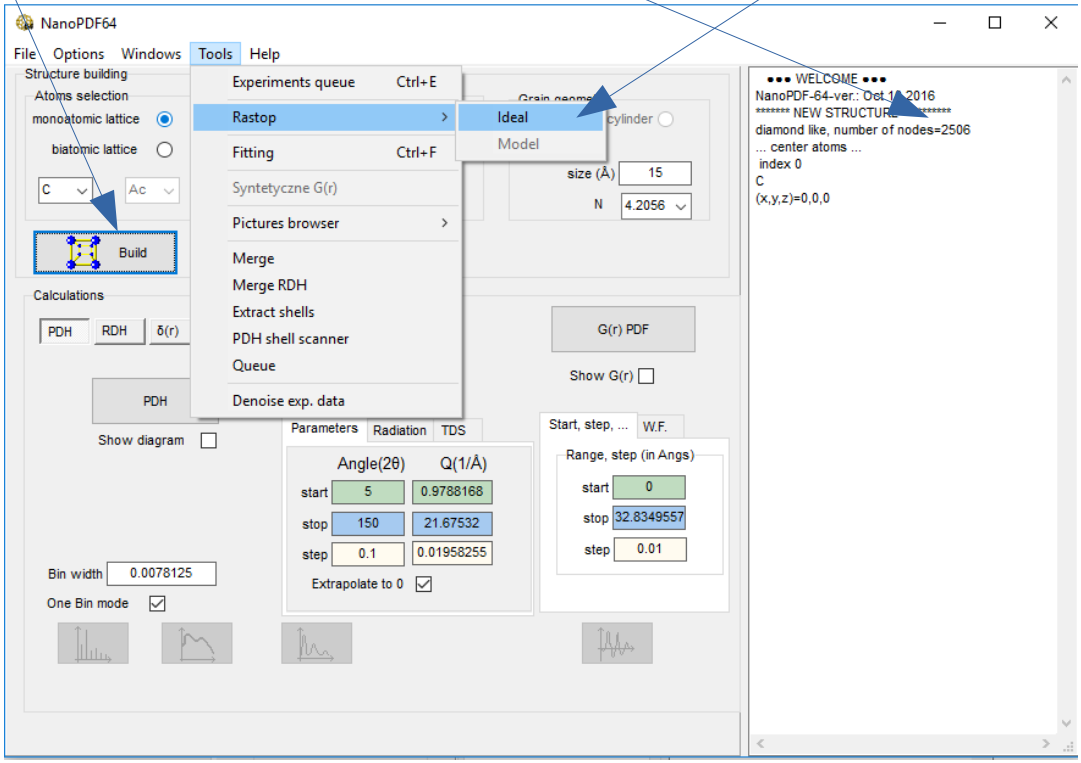
Accepted entries will show up in red. Don't worry about cpnb.bat. Confirm with “OK”.

7. In main program window choose “monoatomic lattice” and select “C” from the drop-down list:

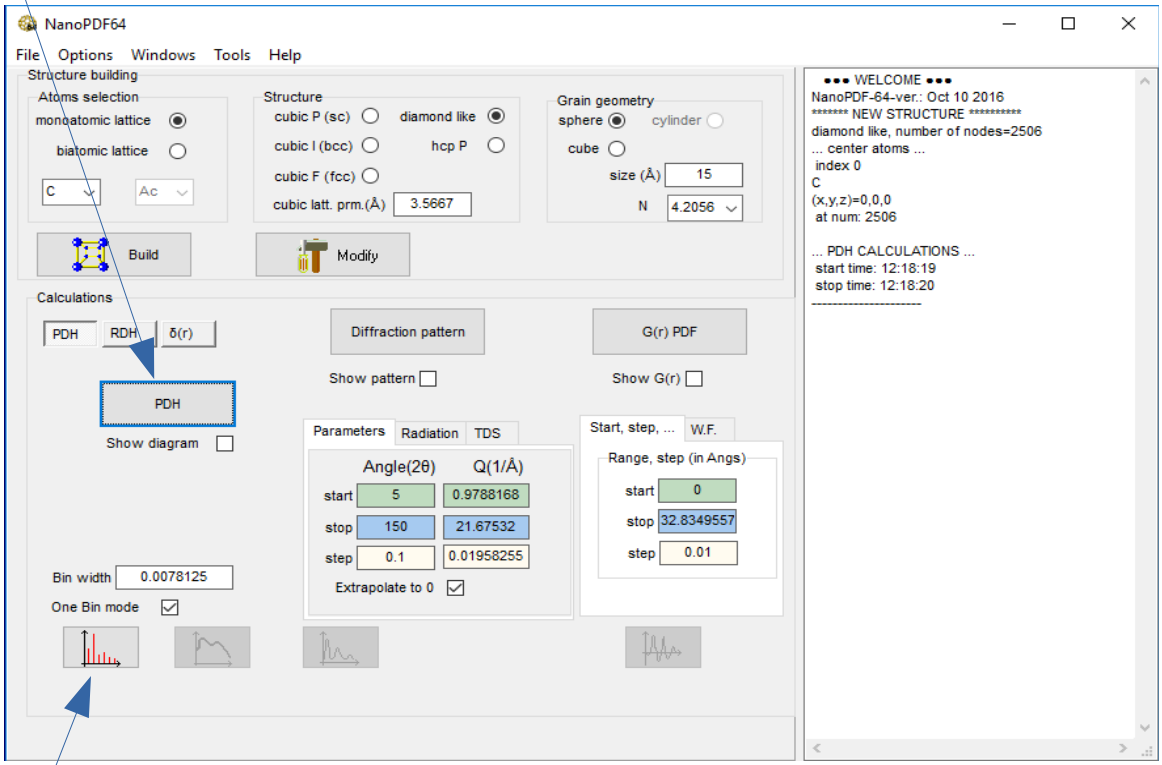


The program will suggest “diamond like” structure, the correct lattice parameter and spherical shape with 15Å radius.

8. Press “Build”. Check the number of atoms created. Choose Tools → Rastop → Ideal and look at the initial model of the nanocrystal in Rastop:

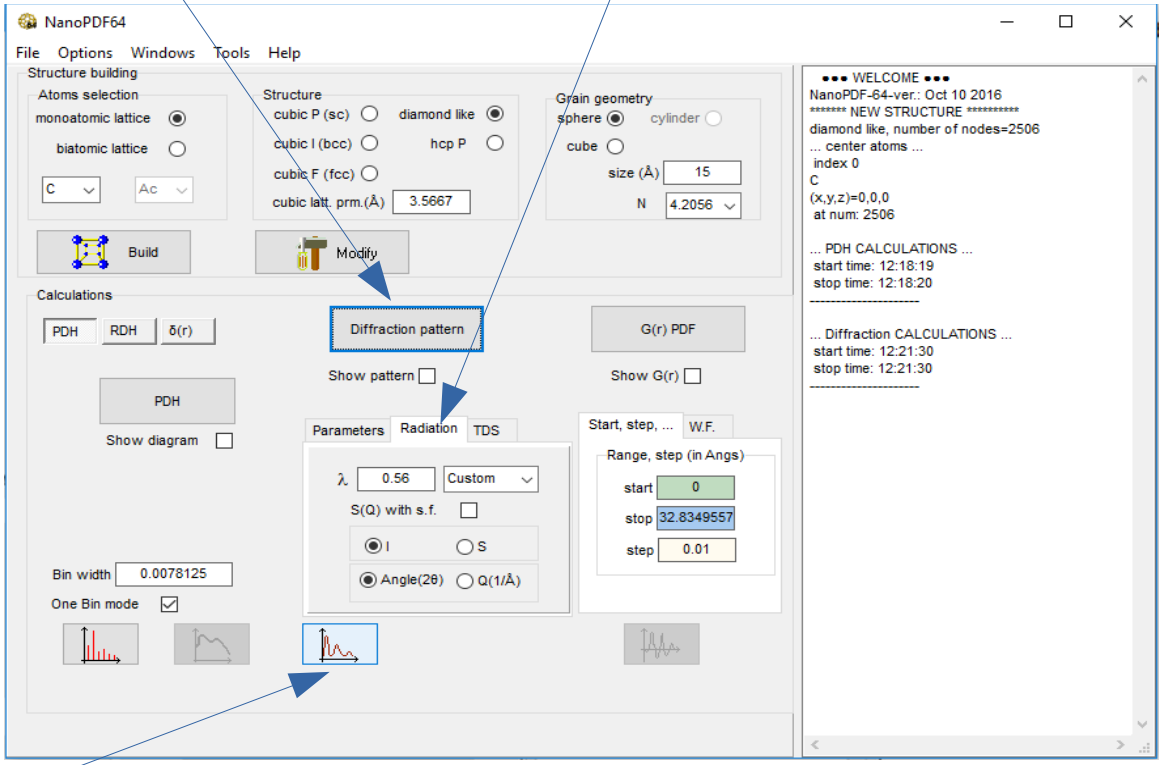


9. Press “PDH” to compute the pair distribution histogram.



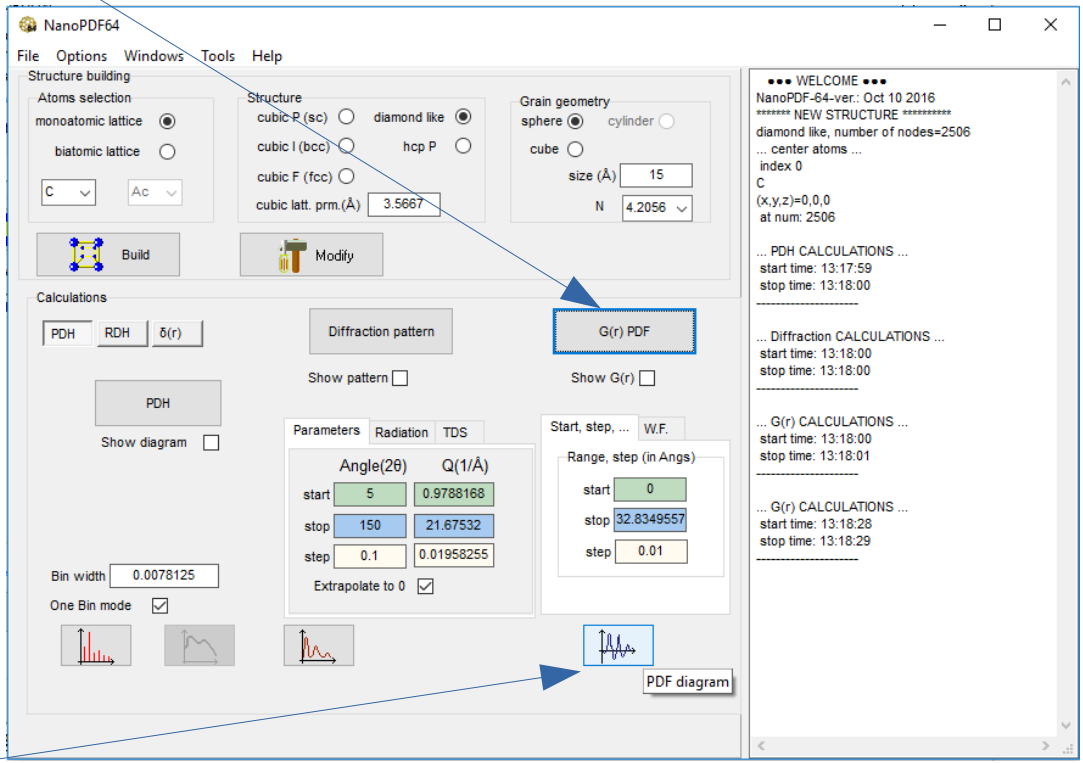
Now the “graph” the button at the bottom becomes active. Press it to see the histogram.

10. Select radiation wavelength and the kind of diffraction data you want to calculate: I(2theta), I(Q) or S(Q). Press “Diffraction pattern”.



The “graph” button at the bottom becomes active. Press it to see the pattern.

11. Press “G(r) PDF” button



The “graph” button at the bottom becomes active. Press it to see G(r).

12. Read manual to learn about all functionalities of NanoPDF64.