

Hardware/software requirements for the Irena/Nika courses

To participate in this course you will need computer (= notebook) with either:

1. Windows 7, 8, VISTA, or Windows10 (32 or 64 bit)
2. Mac OSX (later versions, 10.7 or higher)

Important - you will need computer with sufficient memory, CPU, and screen size:

1. At least 1Gb, better 2 Gb or more *free* memory (*Nika* may use a lot of memory) and USB port.
2. CPU requirements are tough to judge, but *Nika* is cpu demanding. *Irena* is somehow less so, but needs serious cpu also. Most later Intel or AMD chips are likely OK.
3. Large enough screen size - **AT LEAST 768 pixels vertical size <<< THIS IS IMPORTANT** (either physical size or “virtual” size if driver allows it, smaller vertical size will not work). Larger screens are better and more "human compatible" - 15 inch is really useful. On 768 pixels vertical size find way to “autohide” taskbar on Windows... New Ultra high resolution displays are not handled well by Igor 6, so if you have choice, avoid 4k displays for now 😊

Netbooks are NOT useful at all. It has been tested by prior participants. Do NOT bring them. Bring real system.

You will need Igor Pro 32 bit version 6.34 or higher. Do NOT bring Igor 6 64bit version or Igor 7 beta. Options (you will need admin privileges here):

1. If you have license for Igor Pro 6, update to the latest version (free, www.wavemetrics.com) Follow instructions however cumbersome they may seem to be if you have old version of Igor 6.
2. If you do NOT have Igor 6 license, install the latest version (www.wavemetrics.com) as demo few days before the workshop. It will run for 30 days as full-featured demo. You **MUST** be within these 30 days to be able to use your Igor Pro and meaningfully participate.

I suggest installing my Irena + Nika packages prior of the workshop - check for current version week or two before the course. **You will need the latest version to meaningfully participate.**

To install Irena/Nika follow this method (no admin privileges needed):

1. Install/update Igor Pro if needed (ideally to 32bit version 6.37 or higher if posted by then)
2. Download "Universal Installer 1.28.pxp": [http://usaxs.xray.aps.anl.gov/staff/ilavsky/Downloads/Universal Installer 1.28.pxp](http://usaxs.xray.aps.anl.gov/staff/ilavsky/Downloads/Universal%20Installer%201.28.pxp) : Universal Installer 1.28.pxp
3. Open the pxp file (Igor “experiment”) and install/update “Irena” and “Nika” packages. ALSO install separately the xop support (individual button). You can use button "Install everything", but that also adds USAXS data reduction you should not need (but it is small).

This should work if you have Internet access as the installer uses http or ftp to download the components. Restart Igor Pro and look in Macros for “Load Irena SAS Macros” and “Load Nika 2D SAS macros”. Select these options and see if the code “compiles”. If you do not get error but new menu items (SAS and SAS 2D), everything should be functioning correctly.

Check with me if you see errors or something does not work before the workshop starts on site, plan to come earlier to have this fixed. SEE DEMO on my YouTube channel, easiest to find:

https://www.youtube.com/results?search_query=ilavsky+SAXS

More info available here:

<http://usaxs.xray.aps.anl.gov> or <mailto:ilavsky@aps.anl.gov>

