

Using the Panalytical X'PERT MRD thin film diffractometer

Rules:

- Access to use this diffractometer is granted only after receiving proper training. For this, please contact Beatriz Noheda (b.noheda@rug.nl) and Jacob Baas (jacob.baas@rug.nl).
- When booking the diffractometer, be mindful of others and book only the necessary time. Try to leave slots after 17:00 free for people that need to do overnight measurements.
- Always fill out the Excel logbook of the diffractometer.
- Users external to SSME may not use the Anton Paar heater or book the diffractometer for more than two days in a row without consulting with Beatriz Noheda (b.noheda@rug.nl) and Jacob Baas (jacob.baas@rug.nl) first.
- If you will not be able to collect your sample from the diffractometer before the next user, provide a sample box for them to put it in.

Important Information:

- Make sure the x-ray tube is at 40 kV and 40 mA before measuring. If you know you are the last user and nobody will use it over the next day(s), set this to standby values of 30 kV and 15 mA.
- Make sure that the detector is set to 0D Receiving slit and 1 active channel if you use the 1/16 slits as both divergence and antiscatter slits (for XRR).
- The login credentials for the *Data Collector* are username: User-1, password: galaxy.

You can find the full manual with practical information and operation instructions [here](#)