New features, 2017-2 run

General
- On 23ID-D, our vertically focusing mirror has incurred a major problem in Feb. 2017. As a result, the flux for all beam sizes was reduced by a factor of 10 to 20. Therefore, you may need to use a combination of decreased attenuation and increased exposure time.
- The mirror problem has also restricted the current energy range on 23ID-D to 6 – 15 keV.

Data collection
- **For Eiger 16M detector on 23ID-B:** The diffraction images are written directly in the CBF format. The HDF5 format is no longer available.
- Collect status is always visible under the Collect/Pause buttons.
- Detector 2-theta and energy threshold are now written in the CBF image headers.
- The maximum oscillation range (frame width) suggested by automated strategy will not exceed 0.2º

Raster tab
- Both DIALS and DOZOR are offered as spot-finding options.

Image viewing
- Several new image viewing options have been added to improve the visibility of diffracted spots.
- Image viewing options can be selected just above the image, without going into Tools→Options menu.
- adxv zoomed-out viewing is improved (with the padsmooth option). adxv typed at the command line is actually an alias to "adxv -padsmooth".
- The adxv small-spots option improves spot visibility, especially for weak and/or small spots. It can be turned on and off from the Edit→Settings window of adxv.
- David Kissick's "Small Spots Viewer" improves the spot visibility, especially for weak and/or small spots.
- The DIALS spot viewer is available.

Remote access
- NX players versions 4 and 3 are no longer allowed. When using older sub-versions of players under version 5, users will receive a warning dialog. These players will be allowed but some problems may be encountered.
- VNC option added as a backup, as described in FAQ at https://www.gmca.aps.anl.gov/remote/faq.html
- NX webplayer is currently being tested and will likely be added soon. The option to login with installed NX player will continue to be available.