ESRF status update
<table>
<thead>
<tr>
<th>Beamline</th>
<th>Detector</th>
<th>Data rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID23-1</td>
<td>Pilatus2 6M</td>
<td>25Hz (400MB/s)</td>
</tr>
<tr>
<td>ID23-2</td>
<td>Pilatus3 2M</td>
<td>250Hz (2.25GB/s)</td>
</tr>
<tr>
<td>ID29</td>
<td>Pilatus2 6M</td>
<td>25Hz (400MB/s)</td>
</tr>
<tr>
<td>ID30-A1</td>
<td>Pilatus3 2M</td>
<td>25Hz (225MB/s)</td>
</tr>
<tr>
<td>ID30-A3</td>
<td>Eiger 4M</td>
<td>750Hz (1.04 GB/S)</td>
</tr>
<tr>
<td>ID30-B</td>
<td>Pilatus3 6M</td>
<td>25Hz (300MB/s)</td>
</tr>
<tr>
<td>BM-29</td>
<td>Pilatus 1M</td>
<td>1KHz</td>
</tr>
</tbody>
</table>
### Updates in the next future

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<tr>
<td>ID23-1</td>
<td>Eiger 2 CdTe 16M (mid 2021)</td>
<td>133Hz (532 MB/s)</td>
</tr>
<tr>
<td>ID23-2</td>
<td>Pilatus3 2M</td>
<td>250Hz (2.25GB/s)</td>
</tr>
<tr>
<td>ID29</td>
<td>Jungfrau (PSI) (2022)</td>
<td>1KHz</td>
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Data analysis and storage are all done in the ESRF data center. Connected to the BL via fast networking (10 Gb/s). All analysis done after writing images in the central storage. Works perfectly fine with Pilatus detectors (but too many files).
Future operation plans: Lima2 online analysis

- Detector
- Lima2
- Hit finding
- Dozor peak finding
- Storage (hits only)
- Automatic data analysis (hits only)
Higher data rate with EIGER detector, ESRF problems

2 use cases: SSX and automatic data collection.
SSX: produces large amount of data
Automated: Beamline is stopped during image analysis

2D characterization relies on DOZOR.
Current version of DOZOR does not handle HDF5.
We spend major time and disk space to convert back to cbf.
Images written twice, storage and file number increase

DOZOR plan to read .h5 (using NEGGIA)
Create less files (we have an arbitrary limit of 10k images per scan now)
Use it for on the flight peak finding in SSX experiments.
Speed up automated data collection