**Project title**: *Generation of optical potentials for ultracold atoms using a superluminescent diode*

The following files have been archived:

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| **File name** | **File description (Short description of content, sample size, format, any linking between different types of data, i.e. survey and interviews/focus groups)** |
| Atom images:* Dynamic
* Static
 | Images for dynamic and static potentials produced by the SLD with atoms loaded into the potentials. In folder 1) we have a data set for the evolution of our atom sample as we move the potential. Every image is 8ms apart. In folder 2 we see our static images. |
| DMD images:* Blank
* Focus
* Linewidth
* Test Pattern
 | Images produced by the combination of the DMD each light source, SLD and Laser. These images are taken at and around the focal point in the vacuum cell. There is a file for: 1) no pattern 2) Changing the focal position 3) changing the linewidth 4) a pattern that consists of a star and a arrow in both SLD and laser. |
| Spectra: | Origin file containing the measured spectrum of the SLD light before and after the tapered amplifier. |
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-Details of Operating system used to create data: Windows 10 Enterprise N. Version 1709

-Details of software used to create data: Origin Pro 2020.

-Date of data collected: 1/2/2021-1/5/2021

**Publications**: *Generation of optical potentials for ultracold atomsusing a superluminescent diode*