INTRODUCTION

Nikon NSTORM super-resolution system (the booth near the entrance) contains the following lasers:

<table>
<thead>
<tr>
<th>Class</th>
<th>Type and wavelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B</td>
<td>Solid state (405 nm)</td>
</tr>
<tr>
<td>3B</td>
<td>Argon (458, 488, 514 nm)</td>
</tr>
<tr>
<td>3B</td>
<td>Solid state (561 nm)</td>
</tr>
<tr>
<td>3B</td>
<td>Fiber Laser (647 nm)</td>
</tr>
</tbody>
</table>

All the visible lasers are connected to the Nikon Ti microscope via a fiber optic cable. All lasers and their power supplies are combined into a wheeled sled that is placed on the floor behind the anti-vibration table. The sole purpose of the lasers is for super-resolution imaging.

Primary Laser Custodian:

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Authorized Primary Users

A list of authorized users is on file with Environmental Health and Safety. This list will be updated as frequently as needed.

Incidental Personnel

In addition to the authorized primary users, incidental personnel may be in the room at the time of the experiment. These personnel are not trained on the system, nor have they gone through the laser safety program. They will be observing only and not involved in the operation of the system. They will not be in the room during any alignment or maintenance of the lasers.

Normal Laser Operation

Nikon NSTORM super-resolution system contains the following lasers:

<table>
<thead>
<tr>
<th>Class</th>
<th>Type</th>
<th>Model</th>
<th>S/N</th>
<th>Wavelength</th>
<th>Power output</th>
</tr>
</thead>
<tbody>
<tr>
<td>3B</td>
<td>Argon</td>
<td>163-C0207</td>
<td>A1245645</td>
<td>457-514nm</td>
<td>&lt;200mW</td>
</tr>
<tr>
<td>3B</td>
<td>Solid State</td>
<td>1170506</td>
<td>L05060102</td>
<td>405 nm</td>
<td>100mW</td>
</tr>
<tr>
<td>3B</td>
<td>Solid State</td>
<td>SAPPHIRE 561</td>
<td>LDP 1162895</td>
<td>561nm</td>
<td>&lt;100mW</td>
</tr>
<tr>
<td>3B</td>
<td>Fiber Laser</td>
<td>F-04306-13</td>
<td>1101C027-02</td>
<td>647nm</td>
<td>&lt;300mW</td>
</tr>
</tbody>
</table>

All the visible lasers are connected to the Nikon Ti microscope via a fiber optic cable. All lasers and their power supplies are combined into a wheeled sled that is placed on the floor behind the anti-vibration table.

The sole purpose of the lasers is for super-resolution imaging.

Eyewear

Wavelength specific eyewear will be used by field service engineers during alignment.

Alignment Hazard Control

All lasers are aligned by service engineers and are not adjusted by users or facility staff.
Laser Hazard Control

1. Access to laser control room is restricted to trained personnel. The room is secured by a card-access door reader. All access is approved by the campus police.
2. The entire system is enclosed by laser proof curtain.
3. Operation of all Class 3B lasers is only accessible through the system software. Computer access is restricted to trained users with unique login names and passwords.
4. A “Laser in Use” warning sign is mounted above the entrance of the enclosed system booth.
5. All lasers are enclosed with no open beam throughout the path.
6. All users are trained in the operation of the NSTORM and the proper use and care for the lasers.

Primary users are trained in the operation of the NSTORM and the proper use care for the lasers.

Authorized User Signatures

The operating procedure is reviewed and understood by each authorized laser user during initial training on the system.