

## YeSr LabRAD

### 0.1 Installation

#### 0.1.1 LabRAD Manager

The labrad manager and web interface can be found on github. We run these along with our database on a dedicated linux box. systemd unit files can be found in our github labrad repository.

Each machine needs the following environment variables. LABRADHOST is hostname of machine running the manager. LABRADNODE is the machine's name e.g. "yesr5". LABRADPASSWORD is a password. LABRAD\_TLS is "off".

#### 0.1.2 pylabrad

Here is a list of python dependencies.

- required
  - python 2.7.11
  - twisted
  - pylabrad
- generally useful
  - numpy
  - scipy
  - matplotlib
  - pyserial 2.7
  - pyvisa 1.8
- optional
  - Opal Kelly Front Panel
  - python-vxll

These can be installed however you like (pip, virtualenv).

### 0.2 Usage

#### 0.2.1 Simple Connection

If the labrad manager is running and environment variables are set correctly

```
>> import labrad
>> cxn = labrad.connect()
```