

*Start up Guide  
for  
 $n^3\text{He}$  Analysis*

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# 1 Resources

All the start up software and manual related to  $n^3He$  experiment can be found from the official git repository with detailed instruction. The easiest way is to go to n3He wiki ([n3he.wikispaces.com/](http://n3he.wikispaces.com/)) and then click on software from the left panel. Alternatively, here is a direct link.

## 2 Quick start on basestar

On basestar the data is being transferred and saved to the directory `/mnt/idata01/data/` and the analysis library is compiled in a shared directory `/home/npdg/n3He/libn3He/lib`

So a quick start using the compiled library can be as follows from any user account:

1. Add the following lines to the `.bashrc` file & save it

---

```
if [ -f /home/npdg/n3He/libn3He/bin/thisn3He.sh ]; then
    . /home/npdg/n3He/libn3He/bin/thisn3He.sh
fi
```

---

2. Start a new terminal , go to `/home/npdg/n3He/libn3He/analysis/` directory & try running sample analysis scripts from ROOT.
3. The data browser GUI (named as `n3HeData`) can be opened issuing the command `/home/npdg/n3He/n3HeData/n3HeData` from the terminal. Copy the binary to your home directory if you will be using the GUI frequently.

---

```
//OnlineAnalysis.C
//Demo Online Analysis using n3He Library.(By Online I mean 'from
    CINT, doing analysis on the fly, less thoughtful but preferred
    by many or in some conditions')
//Author: Latiful Kabir
//Date: 12/23/14

void OnlineAnalysis()
{
    gSystem->Load("libTree"); //You need to load libTree first in
        order to Load libn3He. This is not necessary if you include
        TTree.h
    //file like the Offline analysis script.
    gSystem->Load("libn3He.so");
```

```
TTreeRaw *t=new TTreeRaw(15142);  
t->Draw("d21[] [0]:Iteration$", "Entry$>3");  
}
```

---

Other user specific customization can be achieved following the instruction in the ReadMe file in the respective directory. The latest developments and releases can be found from n3He wiki [Software](#).