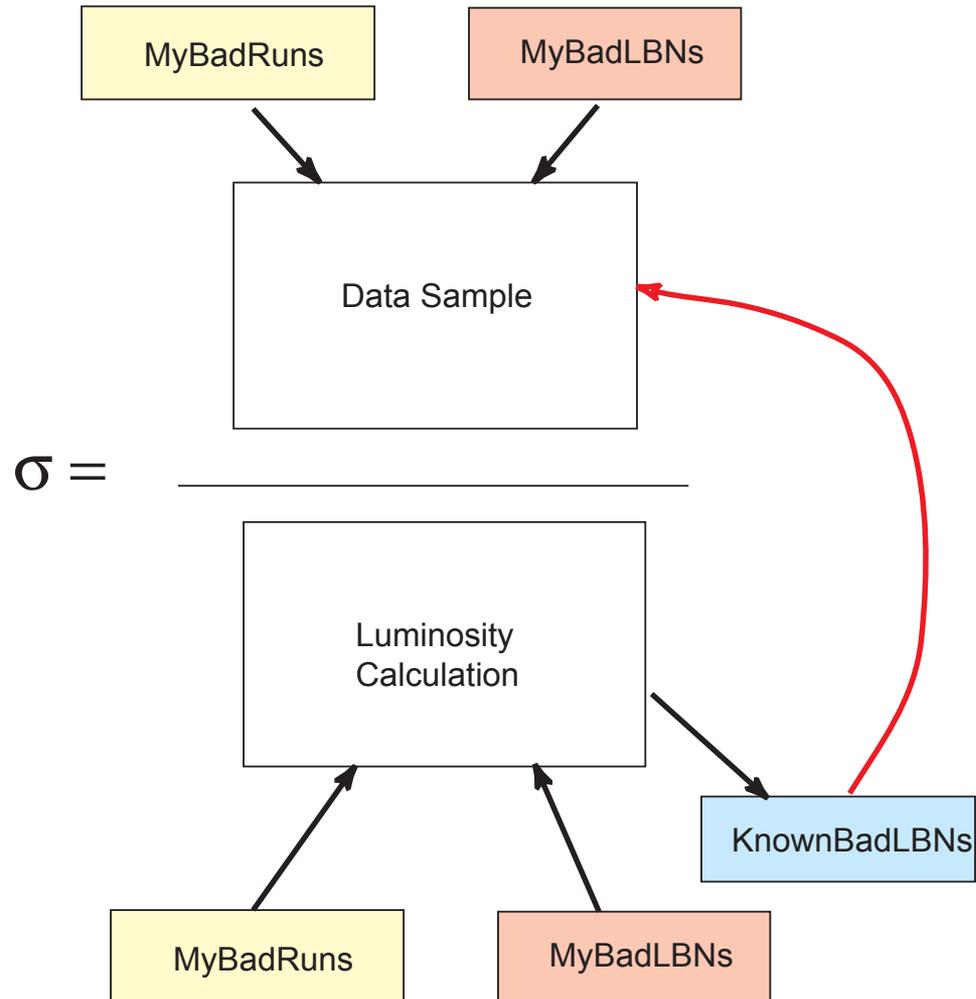


Luminosity news

- There is a new constant and error.
- See Brendan's Talk at ADM
- The next few slides are about using Lum in your analysis

Your Cross Section



Simplest way to do this

- Get your parentage for your common sample: **D0News by Marco Verzocchi**

```
setup D0RunII p14.06.00  
/home/mverzocc/scripts/genLBNtables.py -skim <skimname>
```

This will create a subdirectory ./<skimname> which is your parentagepath

- Create a list of files for your sample -> listname
- Create a list of bad runs for your sample in **badRunsList**
- Or a list of good runs in **goodRunsList**
- Create a list of bad lbns for your sample in **badLBNList**
- Run the new program

```
setup D0RunII t03.47.00  
/home/schellma/sample_luminosity <listname> <parentagepath> <triggername>
```

- It will produce a luminosity and a list of bad lbns for your sample – this is the OR of bad lbns from your bad runs bad lbns and those known to be bad in the normalization. Use this list in your analysis!

In your analysis code throw out the bad lbns from all sources

- Use the class `lm_access/BadLBNList`
- In p14-br (not released) and t04.00.00

```
#include "lm_access/BadLBNList.hpp"

// initialize and read in the badLBNList from sample_luminosity
lm_access::BadLBNList* pbadlbnlist = new lm_access::BadLBNList();
pbadlbnlist->loadBadLBNS("./badLBNList");

// in your event loop - cut out the bad lbns
if(pbadlbnlist->isBadLBN(lbn)) continue;

// at the end
delete pbadlbnlist;
```

Caveats

- Lum stage3 files will be updated next week
 - New LUM constant
 - Good LBN list will CHANGE
 - We will preserve the old files but you will have to use a modified code to get them.
- You will need to redo luminosity estimates and analysis with new LBN list when the update is done
- Skims don't have lum checks done yet so you need to use recorded lum for next week or so.