

# Tag by git

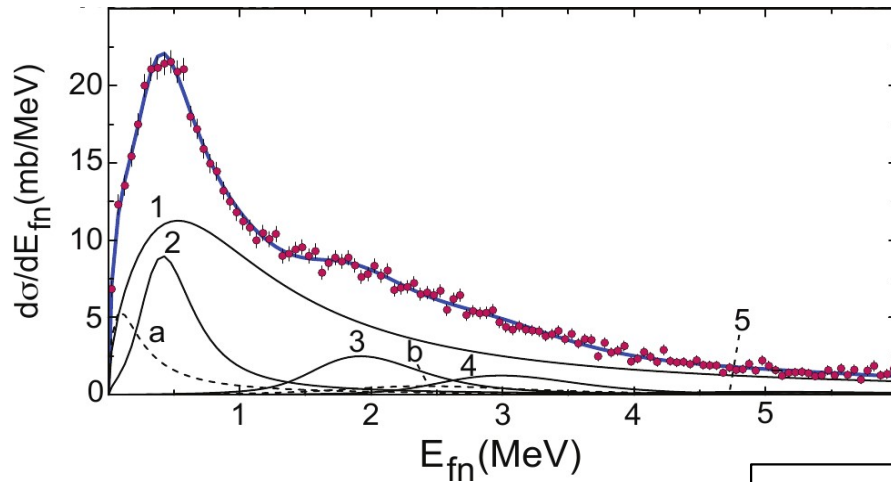
Ronja Thies, Håkan T. Johansson,  
Chalmers, Göteborg

Liverpool, November 2013

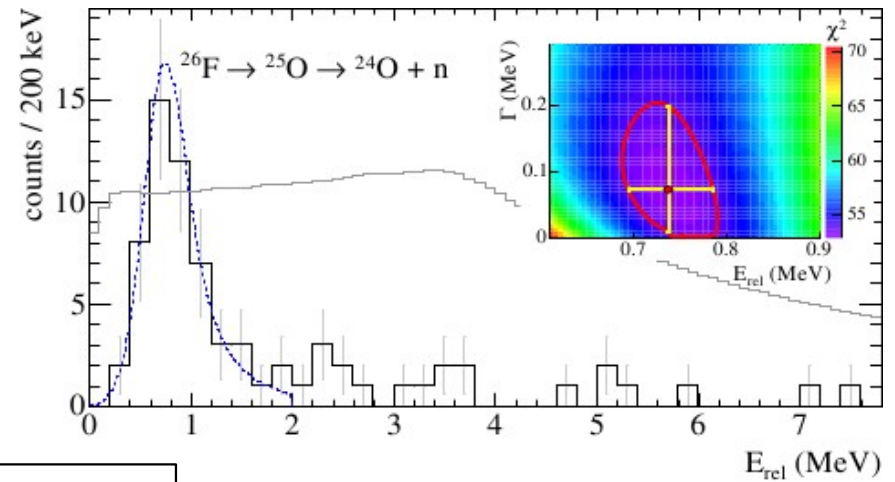
# Can reproduce these?



(you)

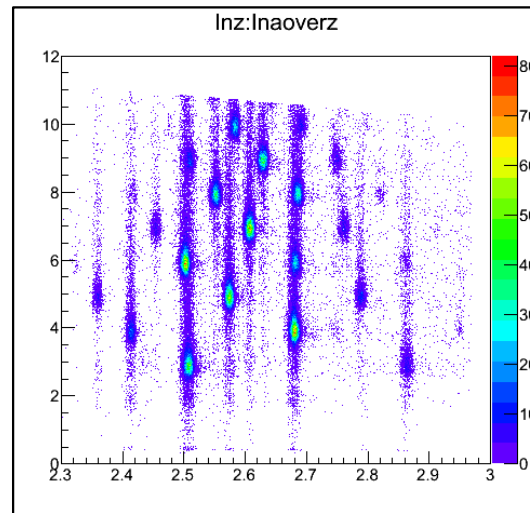


S245,  $^{12}\text{Be}+n$ , from draft of PRC 87, 064316 (2013)



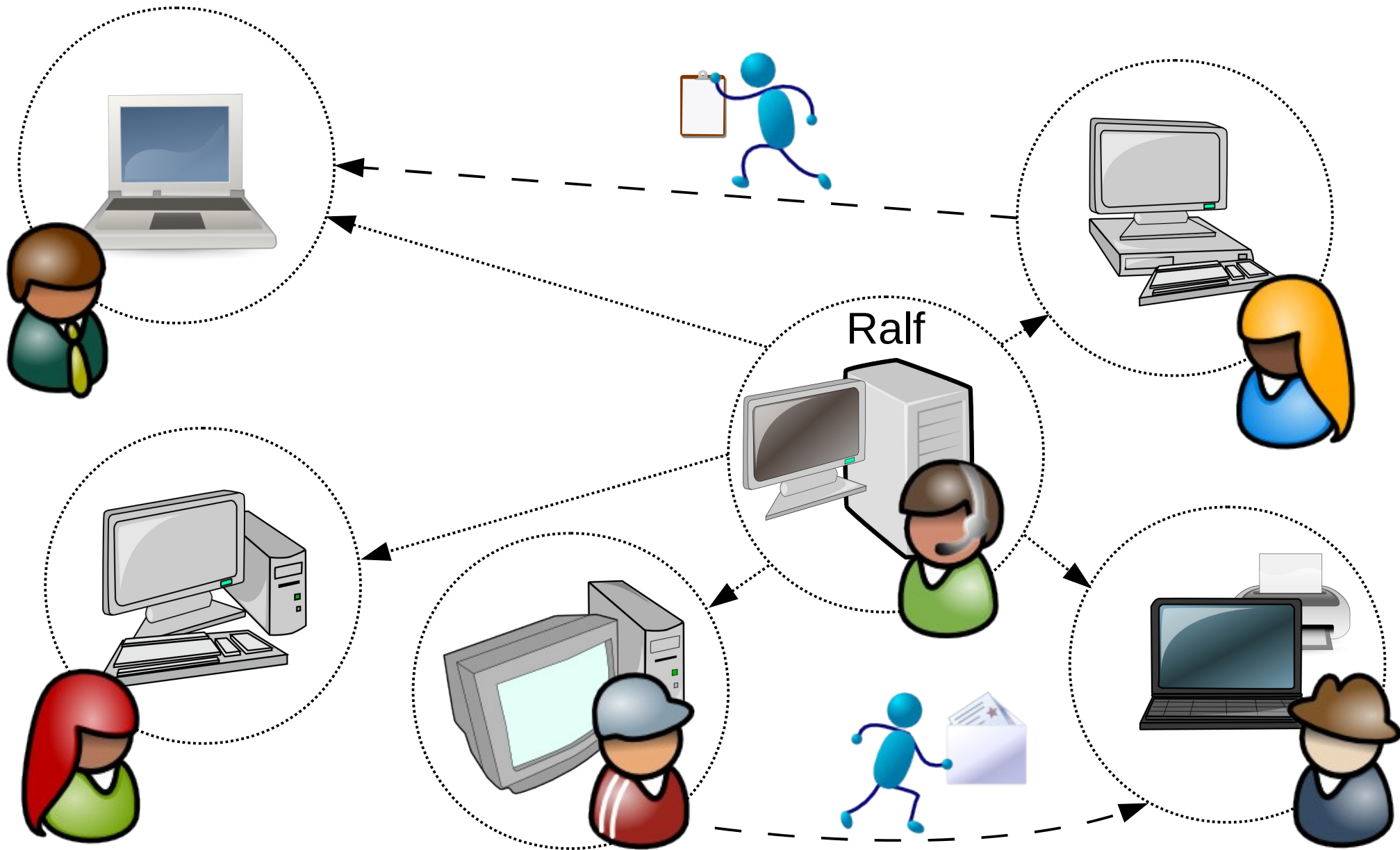
S393,  $^{24}\text{O}+n$ , from draft of PRC 88, 034313 (2013)

S393, run 454




## Code version + calib params ?

# Scarce communication...



# Any suggestions?



~~(database?)~~

# What do we have?

[after a lot of work!]

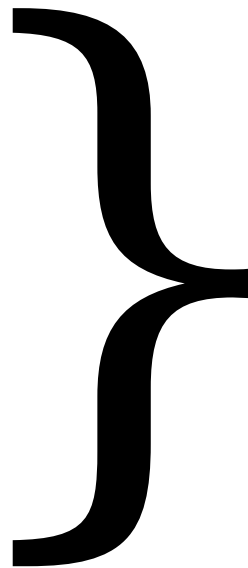
- Parameters
  - Code
- } In *readable* text format

# What do others have?

[also after a lot of work!]

Lots of code:

- Linux
- ROOT
- X.org
- KDE
- gnome
- google
- microsoft
- linkedin
- ...



Version control:

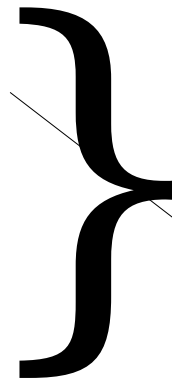
git

# What do we have?

[after a lot of work!]

- Parameters

- Code



In <sup>readable</sup> text format

git

We also use it

# What is **git**?

**git**

A completely ignorant, childish person with no manners.

**git**

A free & open source distributed version control system.

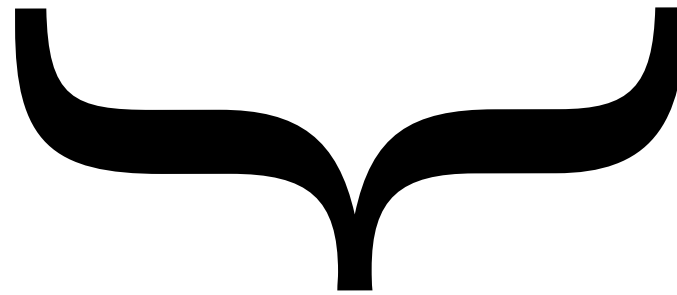


<http://git-scm.com>



# What is git?

- Distributed version control



Everybody  
is  
equal

Individual repositories

Keeping track:

- history
- development
- changes
- branches

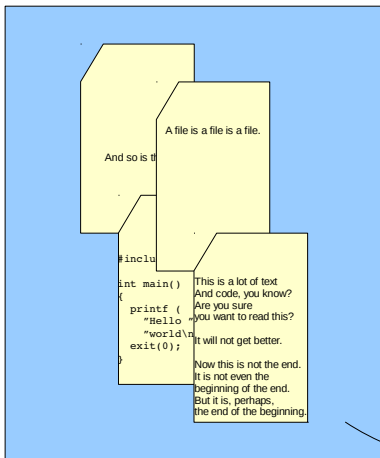
Multiple read access

Also write (if so set up), but let's not open *that* can of worms...

# What is a commit?

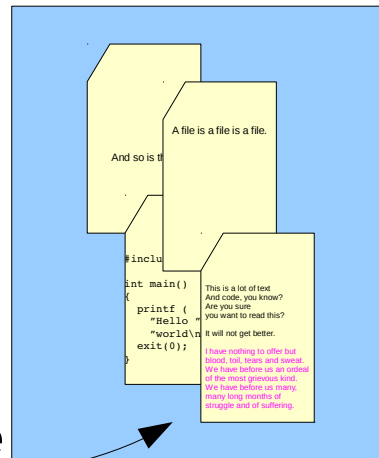
Snapshot

1



Snapshot

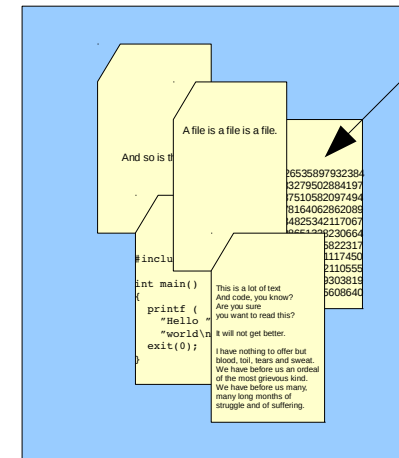
2



change

Snapshot

3

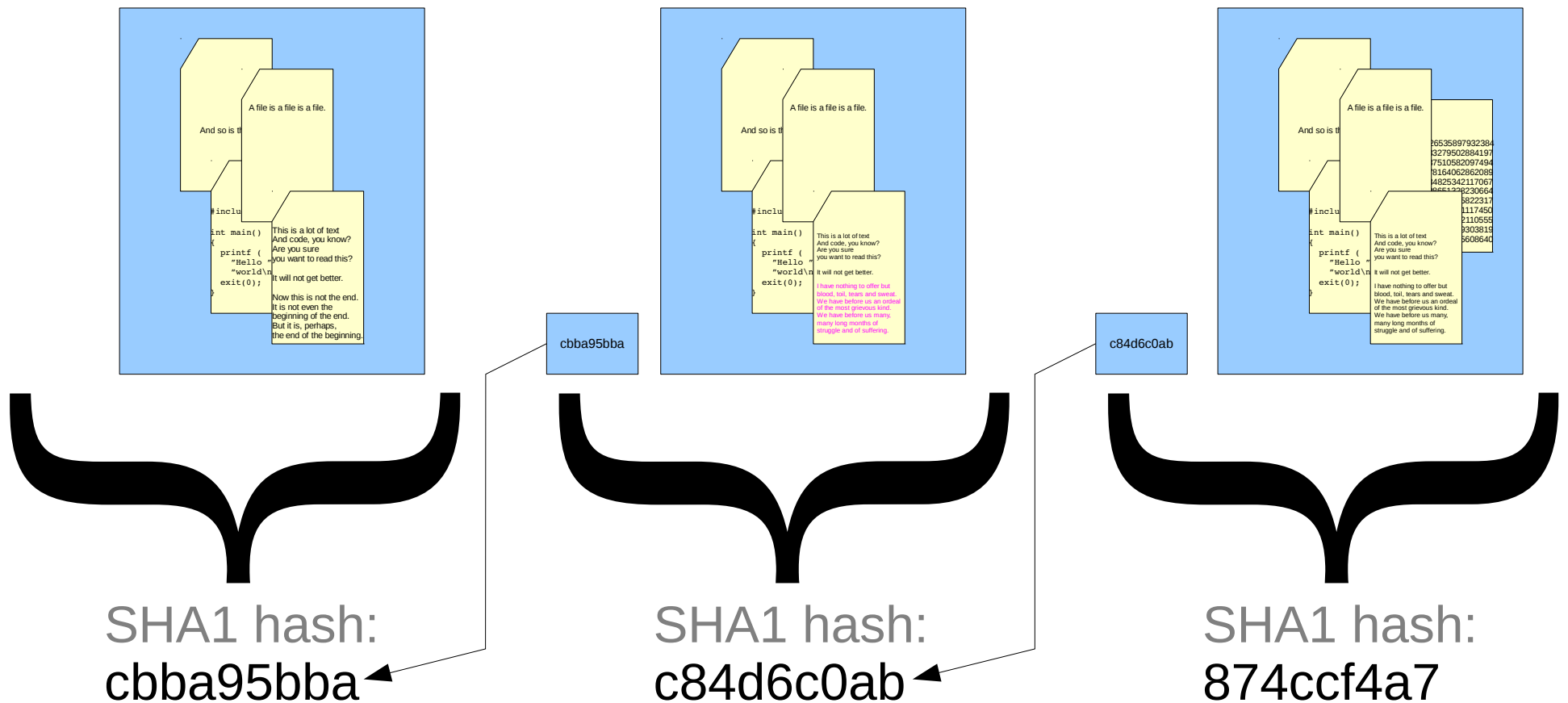


new one

Each **git** commit is a record\* of the working directory contents

\* Efficiently, "incrementally".

# How **git** identifies a commit...



... by a hash of  
{the content + reference to previous commit}

# How this solves our problem!

## Code

```
And so is this.
#include "pos_det_hit.h"
#include "pos_common.h"
#include "util.h"
pos_det_hit pos_det_hit()
{
}

#include "lmd_file.h"
int main()
{
    lmd_file lmd_file;
    _fd_handle = -1;
    _close_file = false;
    printf ("Hello\n");
    _mmap_base = NULL;
    exit(0);
}

file_buffer = NULL;
_file_buffer_size = 0;

_buffer = NULL;
_buffer_size = 0;
```

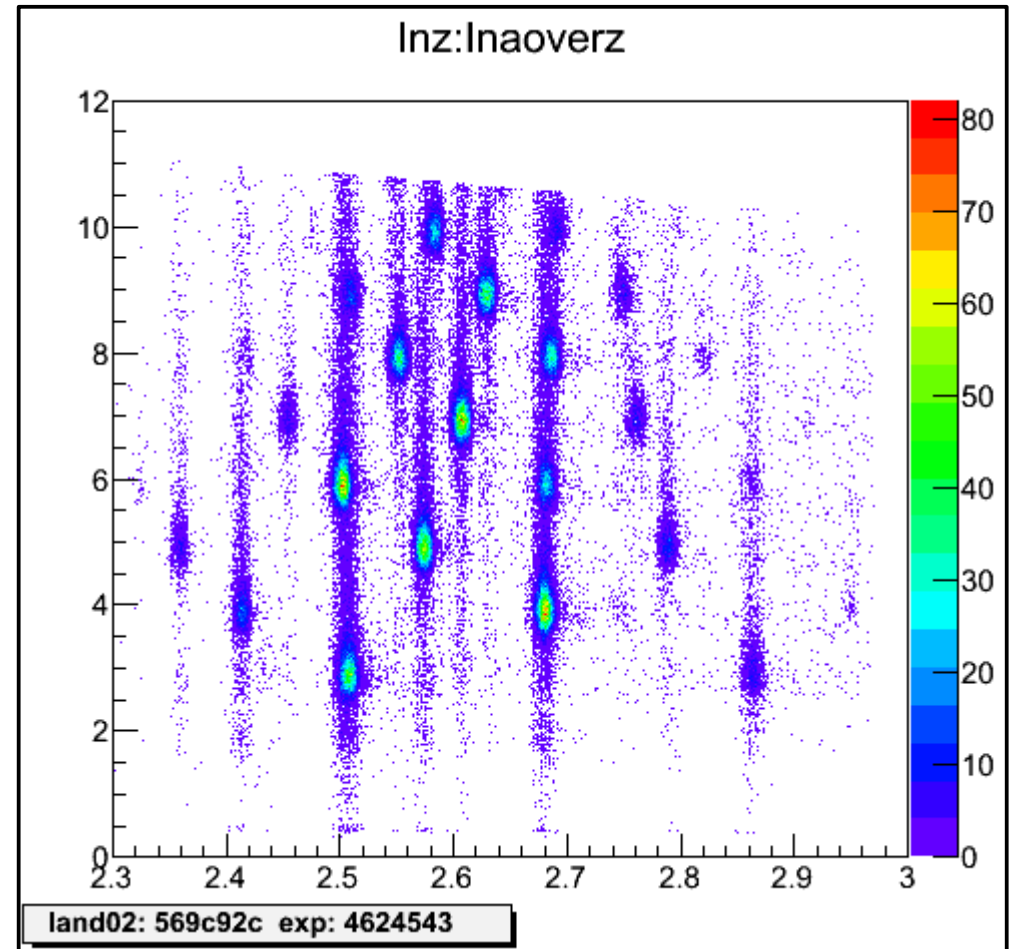
## Params

```
A file is a file is a file.

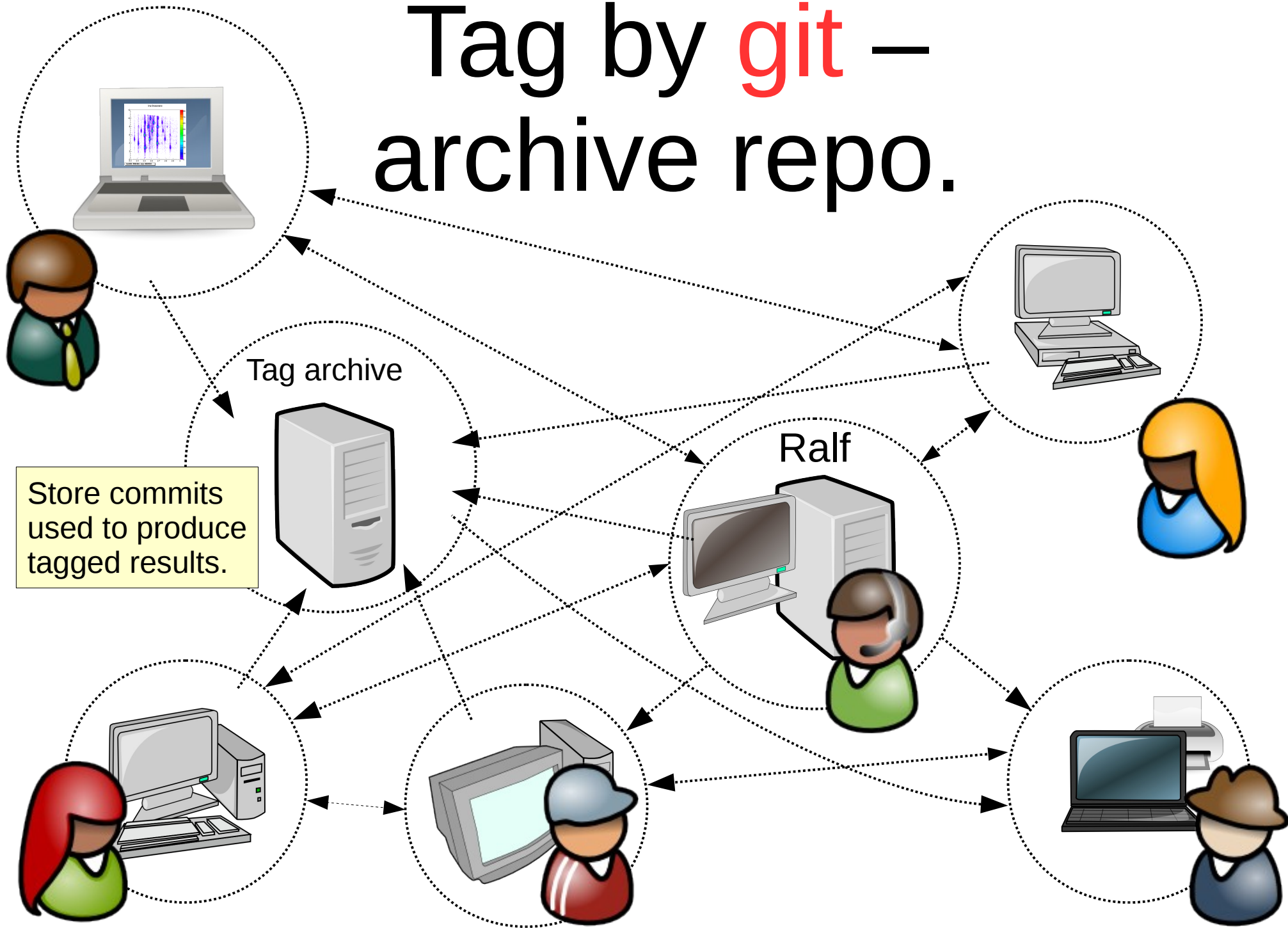
SIG_BEAM( SST01_01 .
SIG_BEAM( SST02_01 .
SIG_BEAM( SST03_01 .
SIG_BEAM( SST04_01 .
SIG_BEAM( SST05_01 .
SIG_BEAM( SST06_01 .
SIG_BEAM( SST07_01 .
SIG_BEAM( SST08_01 .
```

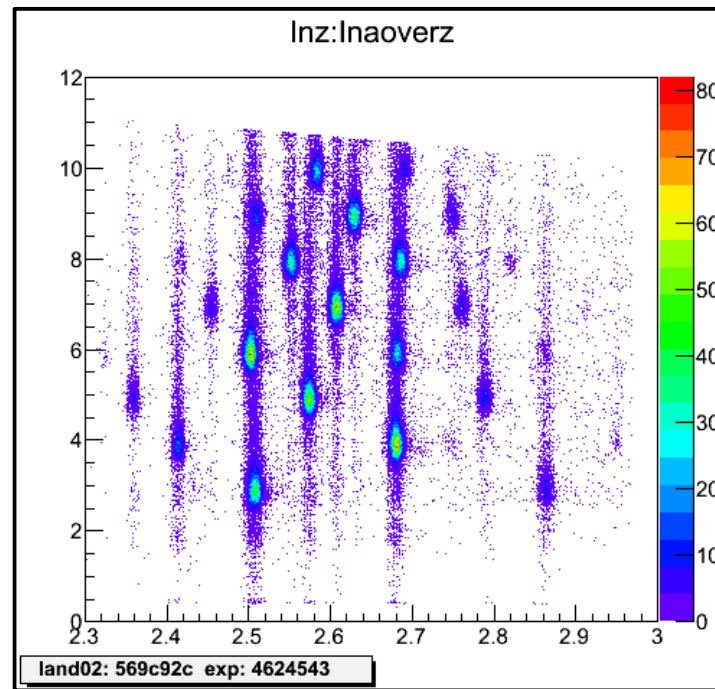
SHA1 hash:  
569c92c

SHA1 hash:  
4624543



# Tag by **git** – archive repo.





# Yes, we can ... commit!

Code\* is prepared...  
Howto will come soon!

\* In total: ~350 lines