

Login to the website below using the username and password that you were given. This will be your block number for both the user name and password. For example user name Maroon 2 password Maroon 2 or user name White 3 and password White 3

<http://www.i2u2.org/elab/cosmic/home/index.jsp>

Click show all content if the following screen appears.

Click Student home on the following screen.

High light the DATA Tab and the second row will turn blue with the following choices.

We will be performing a flux study so click on the flux tab that is highlighted below.

Choose Spearfish on the screen below.

Expand the data set by clicking on the arrow.

[Clear selected data](#)

click here to expand

Spearfish High School
Spearfish, SD
965 data files: 0 blessed, 962 stacked, 11,578,317,547 total events.

Click on the appropriate month to expand the data set. Then select the appropriate dates by selecting the box next to the date. Note some dates may require you to select more than one box. When all your dates are selected then press the button that says, "Run flux study"

to expand

November 2010, 21 files
December 2010, 40 files
January 2011, 41 files
February 2011, 34 files Select: [All None](#)

Detector 6443, 34 files
Select: [All None](#)

Tue 01 2,288,834 events
 Wed 02 2,296,303 events
 Thu 03 2,304,048 events
 Fri 04 1,528,105 events
 Sat 05 2,388,456 events
 Sun 06 2,370,546 events
 Mon 07 1,366,496 events
 Tue 08 2,345,244 events
 Wed 09 2,360,948 events
 Thu 10 1,353,788 events

check the boxes

Analyze

Help

[Tutorial on flux study](#)

[Step-by-step instructions](#)

[FAQs](#)

States include provinces and co

after the dates are selected click this button

Check the dates listed to make sure it includes the data that you are responsible for.

[Understand the graph](#)

You're analyzing	Chan1 events	Chan2 events	Chan3 events	Chan4 events	Raw Data	Remove from analysis
Spearfish High School Feb 1, 2011 00:00:00 UTC	572278	571410	572381	572865	View Statistics Geometry	<input type="checkbox"/>
Spearfish High School Feb 2, 2011 00:00:00 UTC	574037	573221	574323	574722	View Statistics Geometry	<input type="checkbox"/>
Spearfish High School Feb 3, 2011 00:00:00 UTC	576019	575121	576237	576671	View Statistics Geometry	<input type="checkbox"/>
Spearfish High School Feb 4, 2011 00:00:00 UTC	382001	381458	382179	382467	View Statistics Geometry	<input type="checkbox"/>
Spearfish High School Feb 4, 2011 05:51:33 UTC	197908	197581	197981	198132	View Statistics Geometry	<input type="checkbox"/>

check the dates

At the bottom of the screen you will see the followin window. Click the dropdown box next to channel number and check and select 4. Our cosmic ray detector has four counters.

Click **Analyze** to use the default parameters. Control the analysis by expanding the options below.

Analysis Controls

Channel Number: 1

Bin Width (seconds):

Plot Controls

Execution Mode

Local (estimated time: 04:13:55)
 I2U2 Cluster (estimated time: 10:11:18)
 Grid (temporarily disabled)
 Automatic (estimated time: 06:35:04)

3600 for bin width

be sure to check 4

Analysis Controls

Channel Number: 4

Bin Width (seconds): 3600

Plot Controls

Execution Mode

For the Bin Width (seconds) type in 3600 and then click the arrow next to plot controls to expand the menu. In the Y-min section type in 0 and in the Y-max section type in 10000. Under Plot Size drop down and choose large. Under the Plot Title in front of Flux Study type in your name.

Plot Controls

X-min: 12/01/2010 15:01

X-max: 12/06/2010 13:37

Y-min: 0

Y-max: 10,000

Plot Size: Large

Plot Title: Gabriel Flux Study

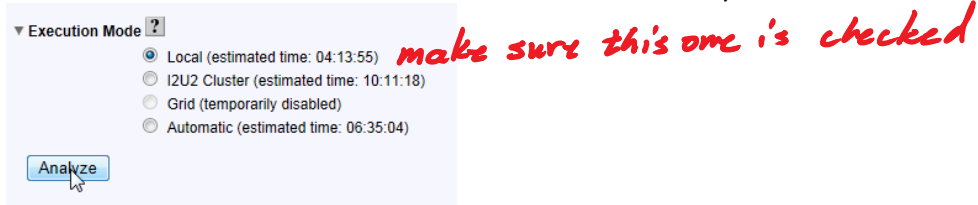
Figure caption: Data: Spearfish High School
Dec 01, 2010 15:01:00 UTC
Spearfish High School Dec 02, 2010 00:00:00 UTC
Spearfish High School Dec 03,

Your Name

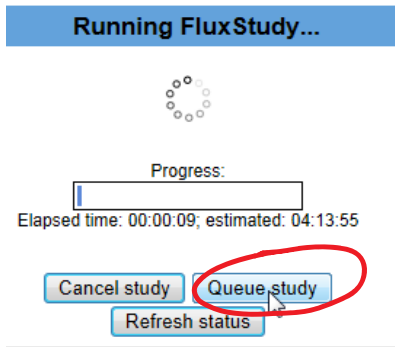
Keep Spearfish High School

Delete everything else

Under execution mode leave local checked and click on analyze.



As soon as the next screen appears click on Queue study.



Click on the analysis tab.



As soon as the completed green check mark appears you can click on the flux study link.

<input type="checkbox"/>	54	ProcessUpload		04/02/13 19:42:13	N/A	01:05:20 / -	✓ Completed
<input type="checkbox"/>	57	FluxStudy	local	04/02/13 20:44:48	N/A	00:02:45 / 04:13:55	▶ Running

Remove Selected

Click on the flux study link.

<input type="checkbox"/>	57	FluxStudy	local	04/02/13 20:44:48	04/02/13 20:53:43	00:08:54 / 04:13:55	✓ Completed
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Right click on the graph and copy it to a word document.

