Lab book dates

Intro week; 17 September - 22 September 2012

Autumn Semester; 24 September - 15 December 2012

03/10/2012

Hello Everyone  
  
Your project (PHY480) and directed reading/literature search  
(PHY408/445) assignments are attached.

Cheers, Ed Daw

Autumn Semester; 24 September - 15 December 2012

Not sure when we had meetings with Pieter in this time period – I will check my lab book and update this. But between this time JW is teaching JK.

01/11/12

Hi Pieter,  
  
I'm sorry I was not in the lecture this morning. I came to your office a few minutes ago for the meeting but you weren't in - which is OK as there is honestly very little to discuss regarding progress, but I thought you might appreciate an update.

  I now feel competent with the material of the project after reading the notes on your site and with help from Josh so am starting to get to grips with the code. Josh is still having trouble implementing the values as vectors and has put in a lot of time in over the weekend. Hopefully now ill be able to really help him with the coding. It looks rather difficult as it is all object orientated and is not how I would have done it (I would have used lots of arrays) but Josh assures me this is a better way as making the 2 and 3 dimensional systems should be easier - which seems fair as he is rather good at programming.

(note in these first few meetings JK is still being introduced to the program).

6/7/12 meet on e floor. Run through the program. JK learns the classes and files.

7/11/12

Met on e floor. Dicide to work on JK username on uni pcs. Share pw. Export files over and compile.

8/11/12

Met on e floor did work, working on getting program to run the reading though bugs.

12

JK writes average length, import over to JW pc.

13

e floor

Working on the stats class. Make it as separate file.

15/11/2012

Board notes from Pieter (check emails)

15

start building greed sort and order, realise we need vectors.

Implementing vectors

19

Implementing vectors

21

Implementing vectors,

22/11/2012

Recieved email from Pieter With poster pictures

22- 29 working on poster individually in this time.

26/11/12 meet with phd guys to discuss use of scribus

29/11/2012

Recieved email from Pieter with t\_2 graph for use in posters

31/11/12

Do all nighter in IC with simon and tom. Complete most of poster.

03/12/2012

Hi Pieter,

I thought I would email you this now. I know some of the pictures (most of the pictures) will need changing for higher resolution or pdf images.

I am slightly worried it is too text heavy.

  See you on Wednesday,

BW

Josh

05/12/2012

Hello Everyone  
  
Here are preliminary instructions for the submission of posters and the poster sessions.  
Guidance for creating posters is on the 4th year web page. Posters should be A0 size

Cheers, Ed Daw

05/12/2012

Hello Everyone  
  
I made a mistake in my earlier email - for which I apologise.  
  
The deadline for TURNITIN submission of your poster is  
close of business (4pm) on MONDARY 10th December,  
NOT Friday 7th December as I said in my last email.  
This is in line with what has been on the web site for weeks.  
  
Cheers, Ed

06/12/2012

Hello Everyone  
  
Next week, as you all know, we assess PHY480 posters  
on Wednesday and Thursday.  
  
I have attached a table that shows who is being assessed on  
which day.  
  
It is OK if you have a class on the day of your assessment - just tell  
us on the day and we will allow you to leave and return. If it is a  
9am class, just email me then arrive after your class.  
  
Everyone must be assessed by two examiners before leaving  
for the day. We have yet to complete assigning examiners, but as soon  
as it is finalised who is assessing what, I will send round a table.  
  
Everyone should show up at 9am and be ready to pin up their poster.  
  
Let me know if you have questions or problems.  
  
Cheers,  
  
Ed Daw

06/12/2012

Hi Josh,

Here is your poster with my annotations.

10/12/2012

Hello Everyone  
  
Please note that the large format print room is on the 15th floor  
of the arts tower, not the 17th floor as I stated incorrectly in my email  
last week.  
  
Also, please remember to submit PDFs of your posters to turnitin  
by the end of the day today.  
  
Ed Daw  
M.Phys. tutor for Physics

10/12/2012

Poster finished

12/12/2012

Hello Everyone  
  
I have attached a table showing the assessors for each PHY480 poster.  
Best of luck with your assessment!  
  
Ed Daw

Josh Kettlewell and Josh Waddington (1) Whittaker Mowbray Josh K. Wednesday, Josh W. Thursday 13th

From 17th December to feb 2 we did no work on the project

7/2/13

Receive files from joshs laptop so we can work on ubuntu. Dual boot pc.

8/2/13

do work debugging, trying to work on the memory allocation.

11/2/13

Josh K has interview in Edinburgh, JW working

13/2/13

sorting not working still.

14/2/13

Meet a JW house. Laptop wont boot. Go to cics for fix.

Fri 15/2/13

Meet e floor. Decide to use mac – as josh got a copy to work.

19/

E floor, program is compiling but order is wrong, things are being reversed.

20/

E floor

21/2/13

Stay in the library working on vectors and the resize command.

is compiling but order is wrong, things are being reversed.

22/2/13 Josh W goes to see GF

Gets ill. Is ill until 1st march ish

25/2/13 (Monday)

Also me and Josh have been working on the code almost everyday,  
although it is working and combining clusters we have some small bugs;  
  
1) After we start using more than 16 qbits in our initial pool the  
code starts changing the order in the memory addresses in which is  
stores each object - leading us to count arrange our qbits  
incorrectly.  
  
2) We are putting in the function to remove qbits after failed entanglements.  
  
  
 Are you available to meet on thurday? Hopefully we should actually  
have some data by then!  
  
Best Wishes  
  
Josh Kettlewell

27/2/12

Josh K Sees Pieter (alone). Talk about different algorithms. For 2d etc. Decided it is best just to finish code.

28/2/12

Meet with josh e floor, do work. JW still ill. Have some results.

1/3/13

Hi guys,

We should meet to discuss the project, because I realised I don't really know what you guys are up to at the moment! Are you free on Monday/Tuesday?

Hi Pieter

Lack of contact is probably down to me, I have been quite ill for just over a week now so haven't been around much. The good news is that its given time to start getting results out. I have attached a graph which shows the average length of a clusters created (via greed) against timesteps with varying Ps (probability of entanglement).

The average lengths have been computed using a monte carlo-esque approach, by which I mean doing the computation for 10000 clusters and averaging out the average lengths. I think the results look reasonable.

My apologies for the daft-graph being done in excel, we are setting up CERN's ROOT as a front end so this will not be a regular occurrence!!

I have called josh and we think that tuesday 2pm is a good time for us next week if that is possible with you?

thanks

josh

Hi Josh W,

Thanks for the graph. Those are interesting results. Will modesty do much better?

Tuesday 2pm is good for me, but I have a tutorial at 3pm.

5/3/2012

Had meeting with peiter (2pm)

Discussed using root, what graphs we should look for, changing N and how high N will be costly.

6/2/13

Had arranged to meet up. Josh delayed by GR and shall work tomorrow.

7/2/13

JK away all day. JW works

9/3/13

Meet at joshs house. Make 2.0 version, Josh making N no longer a pre-processor directive. Difficult due to passing. Talk of changing arrays to vectors.

11/3/13

Meet on E floor. Have changes N to global. Have memory errors somewhere due to array change.

12/3/13

Hi Pieter,  
  
Last week you asked us to arrange graphs comparing different values of  
N and P and look at the number of cluster states of length m as a  
function of t.  
  
Me and Josh have been changing the program this week so we can run  
this using a batch file -  
  
the problem before was the N and P were global variables, so we have  
changed the program so that these are read in the execution call and  
passed to relevant functions - this way the program doe not have to be  
altered and recompiled for different N and P.  
  
  
   Unfortunately we are still working on this so don't have any  
results to show you yet. Could we rearrange the meeting today to  
either Thursday or Friday so we have something to talk about?  
  
BW  
  
Josh K