

Terascale Summer School: Tutorial/Exercises - QCD and Monte Carlo

techniques

13 Aug - 27 Aug

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1. How did you know about the Terascale SummerSchool Tutorial 2020

?

Information from friends

33%

Announcement on www

13%

Announcement via email

53%

2. Should students from more countires participate in the Terascale SummerSchool Tutorial

?

yes, especially from developing countries

31%

yes, all countries should participate equally

54%

the mix of countries is ok

14%

no, more countries make the communication more difficult

0%

3. What is attractive on Terascale SummerSchool Tutorial?

?

international

29%

easy to access and join

29%

can meet people from different countries

27%

I only want to learn physics

16%

4. Internet connection: do you have good and fast internet connection?

?

Yes, it was fast

60%

Internet connction, but often it got stuck

27%

Internet connection at University onky

3%

Very slow internet connection

7%

Bad internet connection, it was hard to follow the lectures and tutorials

0%

5. Computing environment: Do you have your own laptop/PC ?

?

yes, no problem

73%

yes, it was working

10%

yes, but old computer, could not install exercises

13%

yes, but I only could listen

3%

6. How was the remote school ?

?

I liked it very much, people from all over the world could join

43%

I liked it, but sometimes it was difficult to follow

20%

I liked it, because one could ask questions in chat

20%

It was ok, but I prefer School with in person attendance

15%

I did not like it at all, prefer traditional style of school

2%

7. Is video recording of lectures and Tutorial important ?

?

Yes, this is very important

75%

yes, this is nice, but not really needed

25%

no, I do not like being recorded

0%

I don't know, I did not watch the recording

0%

it is not really needed

0%

8. How was the remote Tutorial exercise ?

?

I liked it, it was well prepared

82%

I liked it, but the connection and computing device was not good

14%

I did not like it, and gave up after frist session

4%

9. Comments on the remote Tutorial

?

• Easy to connect with ZOOM, exercise were well prepared and could be installed easily. Tutors are very nice and answer all the questions in detail. We can freely ask questions in the chat window.

• It was a very valuable exercise for me. I was hesitant on the first day of joining, but Hannes assured us everyday that he didn't mean to leave anyone behind, and he stood by that. In the end, I was able to learn a lot. Thank you to everyone who organized.

• I would like to thank all organizers It was great!

• It was a fantastic experience. All the resources were easily accessible. I familiarized myself with the topics covered (MC, MC integration, and how they apply to QCD calculations). Personally, it was also a refresher in C++. All the tutors were very helpful and cordial. The exercises were fun and the entire experience was a blast for me. A big thanks to the entire team for guiding and teaching us!!

• Yeah I felt uneasy on the tutorials . sometimes could not able to follow .

• For me remote-learning was amazing. The way that someone can ask questions freely is not available for shy people, so this a good point, even though sometimes speaking in real life is more active because people can react easier and there's no time for laziness. Totally the current situation of COVID-19 is so difficult, but it couldn't stop us from learning and trying hard thanks to remote-learning.

• Perhaps to have a more versatil program to propose and correct the excercises

• Very well planned, except some tutors are not very responsive to the questions asked. Overall the exercises are all good.

• Divide in groups for the programming language. I was very happy with Jupyter, but some people no

• i preferred if more exercises were possible i need more schools like this but simple ones or starting very smple to help cope with the exercises fast

• Initially had a bit troubling in installation and things as everything was new to me. But whereas guidance is concerned, it was well communicated and talked about.

10. I am

?

theorist

9%

experimentalist

6%

PhD student

3%

master student

63%

postdoc

3%

undergraduate student

16%

11. Previous training in particle physics

?

Yes, I had already courses at the university

47%

yes, I read some text books

33%

I had no courses on particle physic before

20%

12. What was your main interest in Terascale SummerSchool

?

interested in Particle Physics Experiments

35%

Interested in Particl Physics Theory

40%

Wanted overview of modern physics

25%

13. What was your main interest in the Tutorial ?

?

wanted to understand more (48%)

learn Monte Carlo techniques (52%)

14. Quality and structure of Tutorial exercise ?

?

too difficult

7%

a bit too difficult

45%

perfect

48%

partly too simple

0%

too simple

0%

15. Exercises and templates: C++ or Jupyter notebooks

?

I preferred the virtual machine and working on C++

48%

I preferred the Jupyter notebook

18%

both options were good, depending on the available environment

33%

16. Was the video portal ZOOM accpetable ?

?

yes, it was very good

58%

yes, it was good

32%

it was ok, but some countires cannot access ZOOM

3%

I would prefer a non-commercial tool

6%

17. How well were the exercises explained by the tutors ?

?

Very well

43%

Well, but it was going to fast

23%

It was ok, a few more explanations would have been good

20%

some sessions were good, some not

13%

not so good

0%

18. Tutorial: comments

?

• This was the first time I could get my hands around with doing computation and solving equations. The tutorials were really excellent. Although it was a bit tough for me initially, I was able to. Understand the gist of what's happening.

• As an undergraduate student, the theories are quite difficult for me to understand, but I can understand how to apply Monte Carlo calculations. I think it will be better to have a longer general introduction to QCD before going into Monte Carlo techniques in this subject.

• Different tutors have different style. Some will go through the code step by step and others will leave time for ourselves and answer the questions we asked. I would personally suggest to have both way combined, e.g. first 10 mins for personally thinking and then 10 mins the tutor could lead us and go through code step by step and finally leave 5 mins for asking.

• It would be more helpful ,if before each problem the phys behind the problem explained.

• Some more derivations e.g. how to compute the g+g->h cross section would have been helpful

• The information on the questions are quite complicated, but still possible to understand after the short lecture by Hannes

• they need to go slower and more time was needed to cope with you perfectly

19. Other comments

?

• This is my first and one of the best summer school I have attended online. A big thanks to all the professors and co-ordinators to make this summer school actually happen even in these tough times.

• Overall, the event was exciting! Hope to be able to join again next year, maybe physically!

• Really enjoyed the class and learned a lot of new things

• Thank you, simply! :)

• I have really enjoyed the talks , it gave me overall idea of different fields of research on particle physics. In india many of students like me don't get any experimental exposure specially in HEP before joining PhD . So I have joined a theoretical institute . But after attending the school I got highly motivated to do experiment also . I have wish to visit cern once in my lifetime . Thank you for all aranges and your efforts .

• Hope there will be free online session next year. Very appreciate that effort

• Thank you!

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