

Masterclass Questionnaire

1. Basic Information

Please fill in: Date: 30.3.2007 City (where the masterclass took place): Žilina

Country: Slovakia

Age: 15 16 17 18 **Grade/class:** 1 2 3
 (number) **1** **12** **6** **2** (number) **1** **7** **13**

Gender: **4** female **17** male

1.1) Which science courses do you attend at school?

	On a Basic/ General Level Course	On an Advanced Level Course	No
Physics	2	9	0
Biology	0	2	3
Chemistry	0	5	2
Mathematics	2	10	2

1.2) Please describe the group you came with.

0	<input type="radio"/>	I am with my complete class / course plus teacher
0	<input type="radio"/>	I am with my complete class / course without teacher.
4	<input type="radio"/>	I am with a subgroup of my class nominated by teacher.
16	<input type="radio"/>	I am with a subgroup of my class on voluntary basis.
0	<input type="radio"/>	I came on my own, nominated by teacher
1	<input type="radio"/>	I came on my own, on voluntary basis.

1.3) How much time do you spend using a computer?

More than 1h/day					less than 1h/week
1	2	3	4	5	
13	2	4	1	1	

1.4) How often can you actively carry out experiments in your physics / science lessons at school?

very often					never
1	2	3	4	5	
3	0	10	7	1	

1.5) How often do you use the computer for measurement and data analyses at school?

very often					never
1	2	3	4	5	
0	1	0	6	14	

1.6) Please tick the appropriate box.

	I totally agree				I totally disagree
	1	2	3	4	5
I know a lot about physics.	1	5	14	1	0
I want to learn more about physics.	8	9	4	0	0
In my physics/science class, I was well prepared for this masterclass.	2	5	4	5	5
I like physics/science class in school.	9	7	1	3	1
Physics in school has a relation to everyday life.	4	9	4	4	0
Physics in school informs me about the role of physics for modern technological developments.	4	5	7	4	1
From physics in school I know how scientific research processes are organized and carried out.	1	3	9	3	4

1.7) Before you came here, how much about the following terms did you know?

	very much				nothing at all
	1	2	3	4	5
Radioactivity	3	7	8	3	1
Quarks and Leptons	3	1	4	5	8
Particle Physics General	2	5	5	7	2
Particle Detectors	1	4	5	5	6
Particle Accelerators	1	5	6	6	3

2.Elements of the masterclass program

2.1) LECTURES

2.1.1) Please tick the appropriate box.

	I totally agree				I totally disagree
	1	2	3	4	5
The lectures were easy to understand.	10	8	3	0	0
I found the topics of the lectures interesting.	16	4	1	0	0
We had the opportunity to ask questions.	16	5	0	0	0

2.2) EXERCISES

2.2.1) Please tick the appropriate box.

	I totally agree				I totally disagree
	1	2	3	4	5
Teamwork with other pupils was important to solve the problems.	6	6	8	2	0
I felt competent to solve the problems.	8	8	5	0	0
We had the opportunity to ask questions.	16	5	0	0	0

2.3) VIDEO LINKUP

2.3.1) The technical quality of the final video linkup was ...

very good					very poor
1	2	3	4	5	
2	4	8	4	3	

2.3.2) Please tick the appropriate box.

	I totally agree				I totally disagree
	1	2	3	4	5
I could follow the whole video conference very well.	3	2	5	9	2
The video connection to students in many countries gave me some insight in the way international research collaborations work.	3	7	7	3	1

2.4) GENERAL

2.4.1) During the masterclass I had contact / discussions with... (more than one answer possible).

- 14 Other high school students
- 8 teacher
- 7 Scientists
- 8 Tutors and University students
- 0 other

2.4.2) How did you like the particle physics masterclass you attended today ?

very much					not at all
1	2	3	4	5	
14	5	2	0	0	

2.4.3) What did you like most about this masterclass?

- 16 the lectures
- 7 the exercise
- 3 the video linkup

2.4.4) Please tick the appropriate box.

	too easy		exactly right		too difficult
For me the masterclass today was...	2	1	13	5	0

2.4.5) Please tick the appropriate box.

	less		just as before		more
After attending the masterclass today I am ... interested in physics in general.	0	0	9	9	3

2.4.6) Please tick the appropriate box.

	I totally agree				I totally disagree
	1	2	3	4	5
In a masterclass I would like to have more exercises instead of lectures.	1	2	9	7	2
I prefer a program which leaves more room for my own ideas.	1	4	7	7	2
After attending the masterclass I know more about particle physics.	14	4	2	1	0
This masterclass informs me about the role of physics for modern technological developments.	3	6	8	2	2
From attending this masterclass I have learned how scientific research is organized and carried out.	0	2	1	5	3
'Modern physics' such as particle physics should be a bigger part of my physics/science lessons in school.	5	6	9	1	0
Physics in this masterclass shows a relation to everyday life.	4	5	9	3	0

2.4.7) Today, while attending the masterclass, I have learned something new about

	very much				nothing at all
	1	2	3	4	5
Radioactivity	1	4	4	5	8
Quarks and Leptons	6	11	4	0	1
Particle Physics general	11	9	1	1	0
Particle Detectors	13	5	3	0	1
Particle Accelerators	15	6	0	0	1

