

Science Me!

2017 Science Show Competition

June 10-13, 2017; IdeenExpo 2017, Hannover, Germany
an essential science dialogue tool between scientists and the public



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

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Science
Me!
2017
Science Show Competition

June 10 - June 13, IdeenExpo 2017, Hannover, Germany

Patronage:  + 

Participant Road Book

Version 7 05-06-17

FOREWORD

The organising committee warmly acknowledges your participation in the second edition of *Science Me!*, the European Science Show Competition to be held during the 6th *IdeenExpo in Hannover*.

The 9 day long *IdeenExpo* traditionally attracts around 350.000 visitors of all ages and origins who take great delight in gaining scientific knowledge and meeting researchers in a friendly atmosphere.

Science Me! is considered a programmatic highlight of the *IdeenExpo*. For the first time, visitors will not be mere consumers of sciences but also evaluators of science communication.

Due to its central role in the event, *Science Me!* is hosted in the large conference room no. 2 of the *ConventionCentre*, right at the heart of the *IdeenExpo*.

Aimed at spreading scientific knowledge and strengthening the dialogue between scientists and the public, *Science Me!* is sponsored by *IdeenExpo* and University of Göttingen.

A remarkable asset of *Science Me!* is that the shows are evaluated by the spectators, whatever their scientific background, on the basis of their awareness and sensitivity, while a jury of experts evaluates the shows on quantitative and qualitative criteria.

The format of *Science Me!* is simple: Each team of maximum 2 persons is allowed a single 10-minute slot to demonstrate a scientific fact or explore a singularity, do an experiment or play a performance on science, illustrate a well-known phenomenon or communicate a research breakthrough, in other words to create a positive link with the public.

And thanks to *Volkswagen* for the visit of their production site just before the competition starts!

We are convinced you'll enjoy *Science Me!* as much as we'll enjoy your show. Good luck to all of you!

Prof. Dr Arnulf Quadt and Dr Didier Perret -*Chairmans*

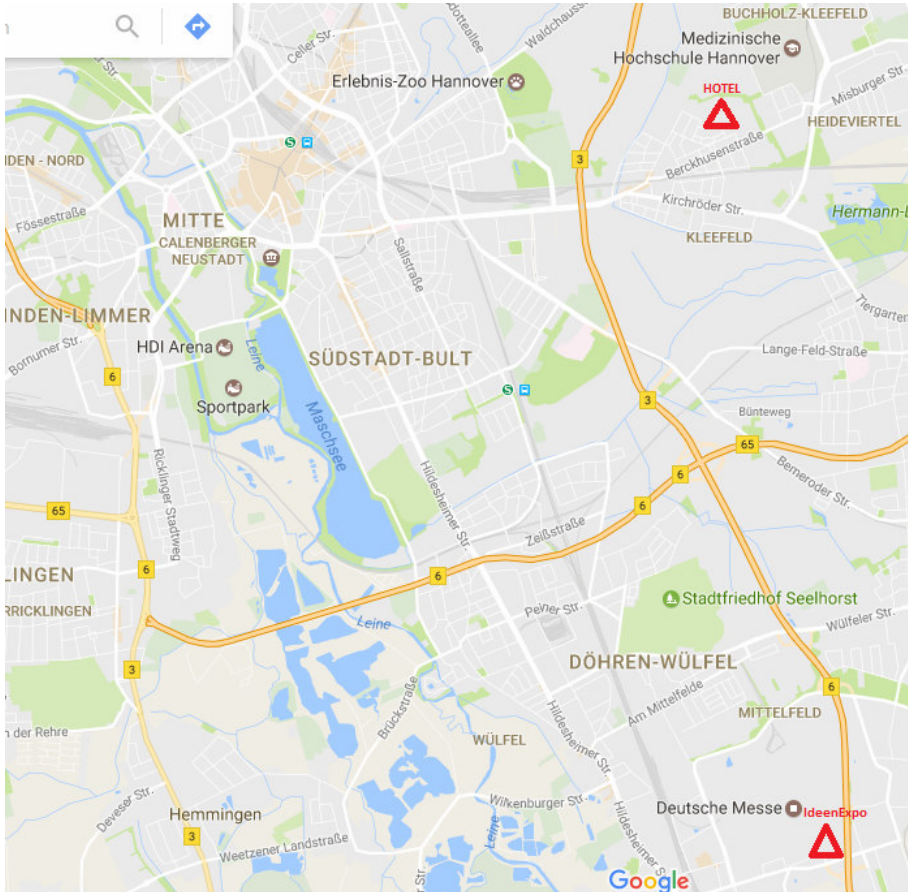
MILESTONES

Sunday, June 11, 08:00-12:30	Check in at the Hotel
Sunday, June 11, 13:00-14:00	Welcome, facility tour and safety instructions
Sunday, June 11, 14:00-16:00	Guided Tour of the <i>IdeenExpo</i>
Sunday, June 11, 16:30-18:00	Show setup, technical checks and experiment safety checks
<i>Monday, June 12, 07:00-11:00</i>	<i>Excursion</i>
<i>Monday, June 12, 12:30-15:00</i>	<i>Science Me!</i> shows (team #1 → team #6)
Tuesday, June 13, 09:30-12:00	<i>Science Me!</i> shows (team #7 → team #12)
Tuesday, June 13, 12:45-13:45	<i>Science Me!</i> finals between TOP 3 shows
Tuesday, June 13, 13:45-14:15	<i>Science Me!</i> award ceremony

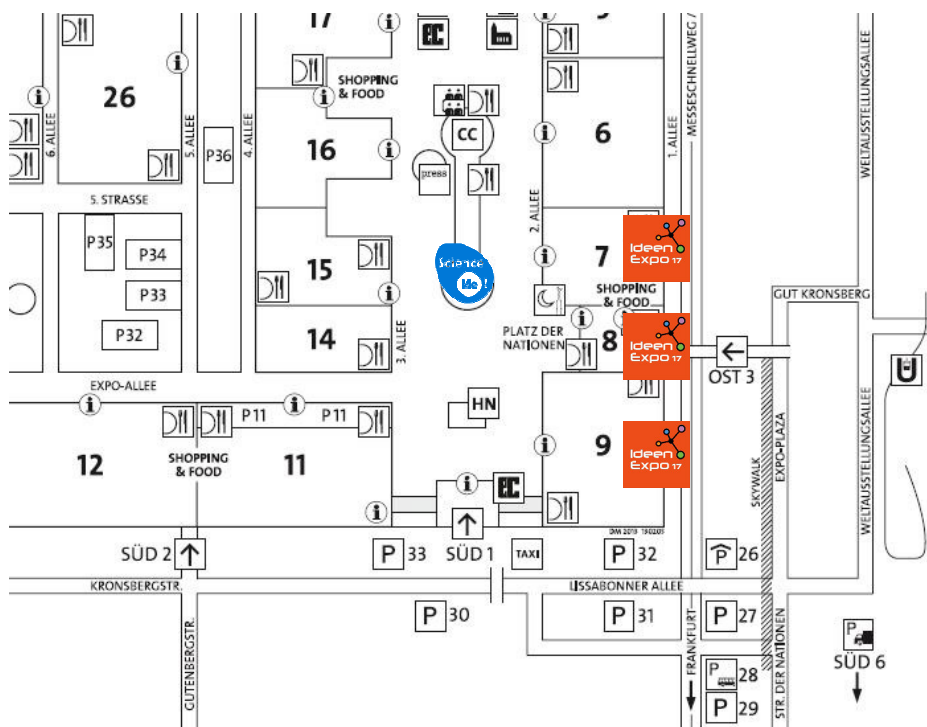
VENUE

The *IdeenExpo*s located in the halls 7-9 of the "Hannover Messe", in the south of Hannover. ScienceMe will take place in room no. 2 of the Convention Center:

<http://www.messe.de/en/your-event/locations/conference-areas/convention-center/cc-room-2.html>.

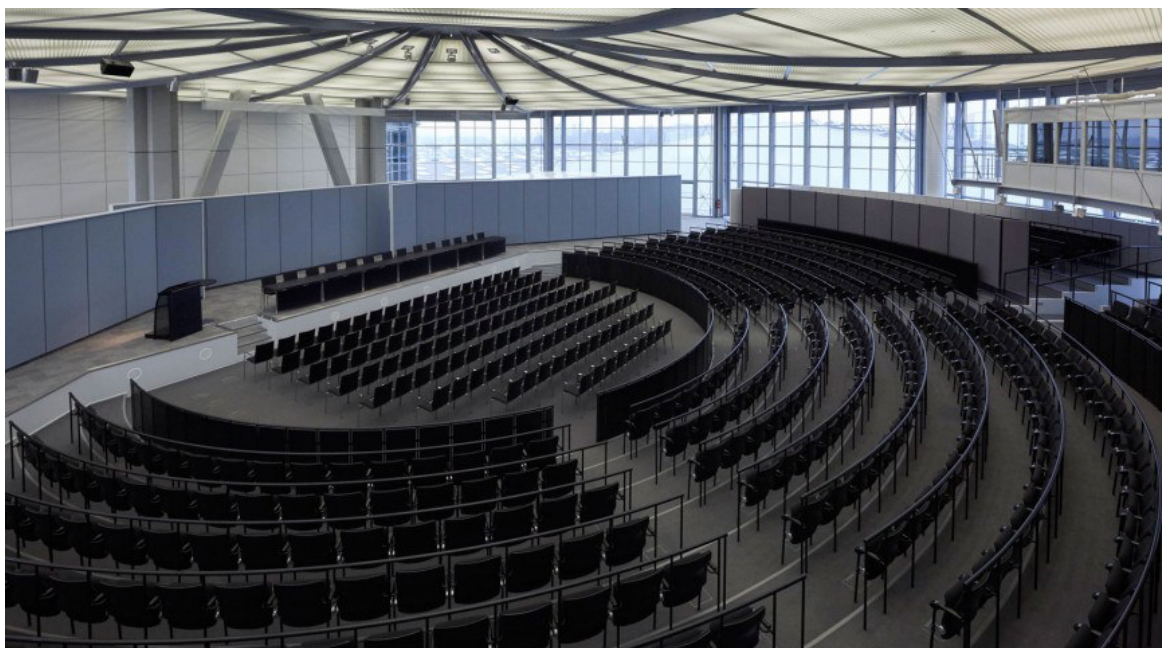


The CC hosting *Science Me!* is in the middle of the IdeenExpo Campus.



ROOM AND FACILITIES

- **Stage:** 70cm above the ground floor
- **Computers:** 1 laptop Windows 64bit
- **Beamer:** format 16:10 (1920×1200 pixels)
- **Display:** 4m × 3m screen
- **Microphones:** clip on microphones for the teams on stage and in preparation. Handheld microphones for the jury and master of ceremony
- **Audio:** 3.5mm audio jack input on stage (controlled by IdeenExpo technical staff)
- **Backstage:** tables for preparation of shows backstage, 6 tables on wheels (one per team each day), space for storage of material
- **Others:** additional material required by some of the teams (smoke machine, liquid nitrogen, magnets, etc) is provided



JURY AND STAFF

- **Official Jury:** 3 independent members from the international science community to evaluate the shows on quantitative and qualitative criteria; the decisions of the Jury are irrevocable and will be made available upon request after the award ceremony
- 1 professional master of ceremony, to introduce the teams and moderate interactions with the audience
- 1 stage manager + 1 stage assistant, to cope with the sequences of presentations and audio-visuals, and to ensure a smooth transition between shows
- 2 programme assistants, to cope with photo/video reporting of the event and counting of the audience, also available for other duties during the shows

PARTICIPATING TEAMS

Team numbers are given below according to the running order of shows. Modification of the running order will only be possible upon duly justified request, and as far as the team affected by the modification accepts the swap.

- #1 **3-2-1 Fire.** Physics + Chemistry.
Matthias De Bot + Marlie Van Gils. Belgium.
- #2 **Freezing Physics.** Physics.
DaanFuldner + Camille DeValk. Netherlands.
- #3 **Abo Akademi Physics Show.** Physics.
Nicki Källmann + Mikael Nyberg. Finland.
- #4 **Dimensions.** Mathematics.
AdélieGarin + Laura Grave de Peralta. Switzerland.
- #5 **Rockstars of Science.** Physics.
Raid Vellerind + Mats Mikkor. Estonia.
- #6 **Physikshow Uni Bonn.** Physics.
Christoph Schürmann + Laura Weber. Germany.
- #7 **The Chemical Orchestra.** Chemistry.
Jacob Olchowka + Bastien Néel. Switzerland.
- #8 **Science Skips Class.** Physics + Informatics + Chemistry+ Mathematics.
Kenneth Tuul + Helen Sepman. Estonia.
- #9 **Zauberhafte Physik.** Physics.
Amelie Schulte + Maria Mironova. Germany
- #10 **Under Pressure.** Physics.
Sven Dražan+ OndřejHerzán. Czech Republic.
- #11 **Fire Tornadoes and Vacuum Bazookas.** Physics.
David Ansell. UK.
- #12 **The Mysteries of Materials.** Physics.
Margherita Boselli + Irène Cucchi. Switzerland.

TIMETABLE OF SHOWS

Shows are arranged into slots of 1 hour with 3 teams and a 5minute gap between each show. It is expected that the public will stay during a complete slot of 3 teams, to allow for better homogeneity of the evaluation by the audience (measured by a clap-o-meter).

Between each slot of 1hour, there is a ca. 15 min. break. The 3 teams of the previous slot are invited to stay around to create a dialogue and interact with the public.

Monday, JUNE 12

Slot	Start	End	Who	What	Language
1	12:30	- 12:45	MC	Welcome talk	GER/EN
	12:45	- 12:55	Team #1	Physics + Chemistry, Belgium	EN
	13:00	- 13:10	Team #2	Physics, Netherlands	EN
	13:15	- 13:25	Team #3	Physics; Finland	EN
2	14:15	- 14:25	Team #4	Mathematics; Switzerland + France	EN
	14:30	- 14:40	Team #5	Physics; Estonia	EN
	14:45	- 14:55	Team #6	Physics; Germany	EN

Tuesday, JUNE 13

Slot	Start	End	Who	What	Language
3	09:30	- 09:40	MC	Welcome	GER/EN
	09:45	- 09:55	Team #7	Chemistry, Switzerland	EN
	10:00	- 10:10	Team #8	Phyics + Chemistry; Estonia	EN
	10:15	- 10:25	Team #9	Physics, Germany	EN
4	11:15	- 11:25	Team #10	Physics; Czech Republic	EN
	11:30	- 11:40	Team #11	Physics; United Kingdom	EN
	11:45	- 11:55	Team #12	Physics; Switzerland	EN
5	13:00	- 13:10	TOP3 #1		
	13:15	- 13:25	TOP3 #2		
	13:30	- 13:40	TOP3 #3		
6	13:45	- 14:15	Jury	Award ceremony	GER/EN

EVALUATION OF SHOWS

Each team only has one chance to enchant the audience and convince the independent Jury. The best three shows will perform a second presentation during the finals.

The shows are evaluated by the public and by the Jury according to the following criteria:

- **Evaluation by the public:** Strength [dB] and duration of the applause, measured by a clap-o-meter, weighted by the number of people in the audience.
- **Evaluation by the independent Jury:** Quality and strength of the pedagogical and didactic aspects of the show; interaction with the audience; scientific relevance of the show (well-known concept vs. front-edge research); artistic and poetic dimensions of the show; spectacular and exhilarating aspects of the show; simplicity vs. complexity of the scientific content and concepts presented; fulfilment of safety regulation (where applicable). The weighing of each parameter to obtain the final score of the Jury will not be revealed.

For each show, the global score is a combination of the evaluation given by the public and of the score of the Jury. Weighing of the public and Jury evaluations will be determined by the Jury and the organising committee; in case of disagreement between the organising committee and the Jury, the voice of the Jury will obtain majority.

SOCIAL EVENT

As a special part of the competition, we will visit the VW production in Hanover, where the famous "Bulli" is produced. Because of our timetable we have a very early visit, starting at 08:00. Therefore we have to leave at 07:00 (for those who don't have a place in a car).

The connection **from the hotel to VW:**

07:00 Start at the Hotel Hannover, Lathusenstraße 15 walking (ca. 8 Minutes) ca. 0,5 km

07:13 Take the **Bus 137** direction "Hannover Am Pferdeturm" from station **Hannover Lathusenstraße**

07:16 Get off the bus at **Hannover Kantplatz** and **change to U5 Stadtbahn 5** direction Stöcken

07:23 Take **U5 Stadtbahn 5** direction Stöcken at **Hannover/Kantplatz**

07:49 Get off the U5 Stadtbahn at **Hannover/Stöcken** and walk to TOR3 through the tunnel.

The connection **from VW to IdeenExpo:**

10:02 Take **U5 Stadtbahn** direction Anderten at station **Hannover/Stöcken**

10:20 Get off the U5 Stadtbahn at station **Hannover/Kröpcke** and **change to U6 Stadtbahn 6** direction **Messe/Ost(EXPO-Plaza)**

10:23 Take **U6 Stadtbahn 6** to station **Messe/Ost(EXPO-Plaza)**

10:46 Get off the **U6 Stadtbahn 6** at **Messe/Ost(EXPO-Plaza)**

Driving by car: Use as navigation adress:

Mecklenheidestr. 74, 30419 Hannover @ Hogrefestraße Parking Südwest TOR3

You need around 35 min by car. So drivers have to leave at 07:15 from the Hotel.

ACCOMMODATION + TRAVEL

All participants of *Science Me!* are lodged at **GHOTEL hotel& living Hannover** (Lathusenstraße 15, Kleefeld, 30625 Hannover; top of p.3; red triangle; ca. 900m from the S-Bahnhof Kleefeld Train Station) in doublebed rooms with breakfast and free WiFi. The final list of room bookings is appended to this roadbook.

Free lodging is offered to maximum 2 members per team for the nights of Sunday, 11 June, to Tuesday, 13 June. Any additional nights will have to be paid directly at the hotel.

Participants lodging at **GHOTEL hotel & living Hannover without a car** can get to the IdeenExpo with lines S3 and S7 from S-Bahnhof Kleefeld to Central Station; then tram lines 6 and 16 to "MesseOst Expo Plaza" or S4 to Hannover Messe/Laatzen.

There will be transportation cards for groups of 5. So you have to find in groups when travelling.

Teams who have requested travel support will be reimbursed with a maximum of 250€ per team upon submission of corresponding receipts.

HOW, WHEN AND WHERE TO START SCIENCE ME! (important info)

Arrival and departure dates differ for almost all teams. We thus suggest the following to ensure your journey in Hannover will not be spoiled by little mishaps:

- **Public transport:**

- If you arrive at the airport, don't forget to buy your public transport ticket at the Arrival level of the airport
- If you arrive at the train station, you'll also have to buy a ticket
- The ticket machines accept EUR and most debit/credit cards, and return change
- For the days of the event, after Check-In, we will provide public transportation tickets for groups of 5, if you don't have a car

- **Check-in and check-out at the Hotel:**

- In principle, check-in time at the Hotel is 14:00, and check-out time is 10:00, but "Science Me!" teams arriving before 14h will be able to leave their luggage at the desk, check-in as members of the "Science Me!" group; likewise, if you leave later than 10h, check-out at 10h and leave your luggage at the desk
- A member of the ScienceMe! LOC will be at the hotel on Sunday (they will receive relevant info on the uses, schedules, rules, WiFi codes, etc.)

- Teams planning to sleep in another hotel will have to verify their check-in and check-out times directly with the hotel

- **Joining by car:**

- If you are joining by car, please take **Parking P33**. The address for your navigation system, parking at the Ideenexpo is: "Alte Kronsbergstraße 8, 30880 Laatzen". When you arrive there and can't get in, you can identify yourself with the roadbook. In case of problems please call us.

- **Checking your presentation, the stage and backstage, and other details:**

- The ScienceMe! Team will be preparing the room for the "Science Me!" event from Sunday, 11 June 16:30; you can already bring your material (the room will be under control of security agents during the night) and get an overview of the stage, backstage, beamer, computer, and audio-visual facilities, but we won't have time to setup before 16:30.

- We suggest that you come on **Sunday, 11 June**, from 10am to 1pm; Our Team will welcome you until 13h at the IdeenExpo! Please come to the stand of University Goettingen in the Energy Field (EF - 05).

- Everyone must check their presentations, audio etc. (and give us a copy, which will be pre-loaded on our computers, with all relevant instructions) **during the preparation time on Sunday 11 June, from 16:30**

- On Monday after the excursion and on Tuesday, teams will have free access to the backstage to prepare their shows (teams are expected to come in advance); staff members will be backstage to guide them and explain them the ultimate details to guarantee a smooth event

- **Final words on your shows:**

- The rules of the competition put emphasis on the fulfilment of safety regulations (the organising committee considers that safe experiments are probably the best ambassadors of science among the general audience, although the public usually loves explosions and other highly spectacular experiments...)

- For this reason, experiments which are or could be dangerous, or which could impair the public or the teams, or which could result in accidents, will not be allowed; an instructed staff member will be present backstage to check for this point.

USEFUL LINKS

Science Me!	http://scienceme.unige.ch/ or scienceMe@unige.ch
IdeenExpo 2017	http://www.ideenexpo.de/
Hannover	http://www.hannover.de
Hotel	http://www.ghotel.de/en/hotels-2/ghotel-hotel-living-hannover/
Hannover international airport	http://www.hannover-airport.de/en/passengers-visitors/
Hannover public transport	https://www.gvh.de/home/?no_cache=1&L=1#

ACKNOWLEDGEMENTS

IdeenExpo

<http://www.ideenexpo.de/>



University Göttingen

<http://www.uni-goettingen.de>



Georg-August-Universität
Göttingen

EuCheMS

www.euchems.eu/



FEMS

<https://fems-microbiology.org>



ORGANISING COMMITTEE

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**In case of any problems, please call
Johannes (+49 151 2277 9663)
or Sebastian (+49 151 405 504 70)**

Timetable ScienceMe

Time	Sunday 11.06.17	Monday 12.06.17	Tuesday 13.06.17	
7:00		Excursion to VW		
7:15				
7:30				
7:45				
8:00				
8:15				
8:30				
8:45				
9:00				
9:15				
9:30			Checkout	
9:45				
10:00	Arrival + Dropoff Material		Setup for Shows	
10:15				
10:30				
10:45				
11:00				Block Opening Show 7 Show 8 Show 9
11:15				
11:30				Break
11:45				Block Opening Show 10 Show 11 Show 12
12:00				
12:15				Lunch
12:30				
12:45		Official Opening Show 1 Show 2 Show 3	Opening Finals Finals Show 1 Finals Show 2 Finals Show 3	
13:00	Welcome + Safety Instructions			
13:15				
13:30		Break	Award Ceremony and Closing	
13:45				
14:00	Guided Tour of IdeenExpo	Block Opening Show 4 Show 5 Show 6		
14:15				
14:30				
14:45				
15:00				
15:15				
15:30			Preparations for Tuesday	
15:45				
16:00				
16:15				
16:30	Setup, Technical checks, Experiment checks with Safety Officers			
16:45				
17:00				
17:15				
17:30				
17:45				
18:00				

TEAM	Name	Arrival	Departure	Man	Woman	TOTAL	10.6. beds	11.6. beds	12.6. beds	13.6. beds
#1 Matthias DE BOT Marlie VAN GILS Science officer 4te Person N.N.	Technipolis 3-2-1 Fire. Belgium	11.06.	13.06.	1	3	4	0	3	4	0
#2 Daan FULDNER Camille DE VALK	RINO Freezing Physics. Netherlands	10.6.	13.06.	2	0	2	2	2	2	0
#3 Johan Lindén Mikael Nyberg Nicki Källmann	Abo Akademi Physics Show. Finland	10.06.	14.06.	3	0	3	2	3	3	0
#4 Adélie GARIN Laura GRAVE Shaula Fiorelli	Mathscope Dimensions. Switzerland	11.06.	13.06.	0	3	3	0	3	3	0
#5 Raid Vellerind Mats Mikkor	Kvark Rockstars of Science. Estonia	11.06.	13.06.	2	0	2	0	2	2	0
#6 Christoph Schürmann Laura Weber David Ohse Niklas Kramer Alexandra Wald	Uni Bonn Physikshow Bonn. Germany	10.06.	13.06.	3	2	5	5	5	5	0
#7 Jacob OLCHOWKA Bastien NÉEL	Chimiscope The Chemical Orchestra. Switzerland	11.06.	13.06.	2	0	2	0	2	2	0

Sheet1

Room Nr.	Persons	10.06.	11.06.	12.06.	13.06.
1	Kenneth Tuul + Kertu Metsoja		x	x	
2	Helen Sepman + Emilia Laas		x	x	
3	Adeline Garie + Laura Grave		x	x	
4	Shaula Fiorelli +		x	x	
5	Sven Drazan + Ondrej Herzan		x	x	x
6	Barbora Butorova + Radka Zounkova		x	x	x
7	Johan Linden + Mikkael Nyberg	x	x	x	
8	Nicki Källmann + Niklas Kramer	x	x	x	
9	Amelie Schulte + Maria Mironova	x	x	x	
10	Margherita Boselli + Irene Cucchi	x	x	x	
11	Daan Fuldner + Camille de Valk	x	x	x	
12	Christoph Schürmann + David Ohse	x	x	x	
13	Laura Weber + Alexandra Wald	x	x	x	
14	Matthias de Bott + N.N.		x	x	
15	Marlie van Gils + N.N.		x	x	
16	TP science officer			x	
17	Jacob Olchowka + Bastien Neel		x	x	
18	David Ansell		x	x	
19	Rais Vellerind + Mats Mikkor		x	x	
20	Johannes Hinrichs + Sebastian Skorzinski	x	x	x	
21	Didier Perret Einzelzimmer		x	x	
22	Rebecca Claude Einzelzimmer	x	x	x	

self paid

Paid UGOE