

Magical science at Pohoda festival, Slovakia Jul 11-13, 2019



The largest art/music festival in Slovakia – limited capacity of 30 000 visitors

Programme in the Magical science tent

Friday Jul 12, 9:00 – 13:30 & Saturday Jul 13, 9:00 -13:30

Friday 12.07. at 18:00 live video from NASA Jet Propulsion Laboratory,
Pasadena: Heather Bottom, engineer for Mission Mars 2020

Total audience: ~ 5 000 people
~ 400 /lecture



Programme details

- **Friday Jul 12, 9:00 – 13:30**
 - Simple experiments
 - Why and how we wake up
 - Cloud chamber workshop
 - What have CERN and the LHC ever done for you
 - What is space made of?
 - The physics of beer workshop

- **Saturday Jul 13, 9:00 -13:30**
 - Cloud chamber workshop
 - What's the matter with antimatter?
 - Beating hearts of galaxies
 - Mad science (simple experiments)
 - Neural networks which paint like Picasso
 - Smells, pheromones and passion



M. Mojzis, Neural networks which paint like Picasso



B. Sitar, What have CERN and the LHC ever done for you

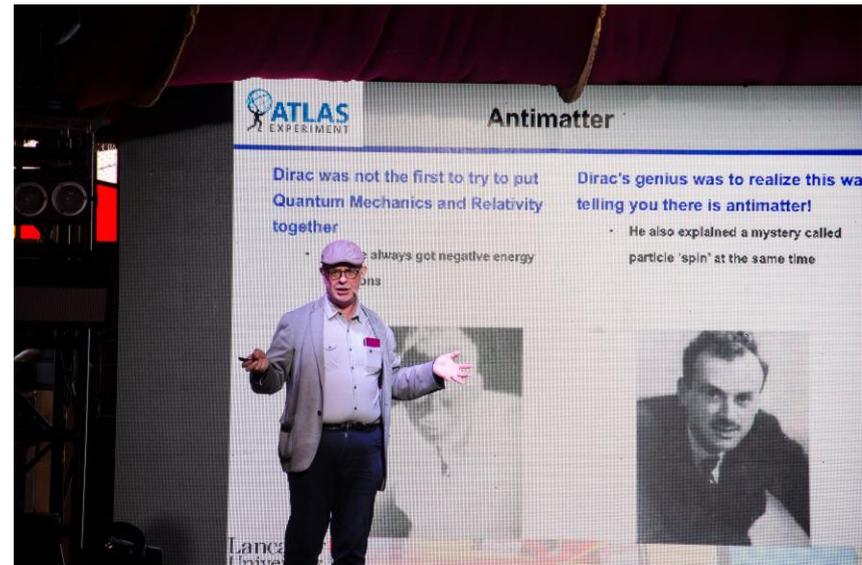
Magical science team

Foreign team: Connie Potter (CERN), Roger Jones (Lancaster U), Chris Thomas (Iowa U), Larry Lee (ATLAS)

Home team: T. Dado, R. Astalos, J. Tekel, S. Kovacik, B. Sitar, I. Melo + 5 others



Norbert Werner, Beating hearts of galaxies



Roger Jones (Lancaster U), Antimatter

Support

IPPOG: 1k EUR

Slovak committee for cooperation with CERN: 4k EUR

Pohoda: Magical tent with all equipment, accommodation & food, beer for the beer workshop

Vedator.sk & FMFI UK: speakers & volunteers

CERN

} Travel, shipment, video, giveaways, ...



Corporate identity of the first slide of each talk

Why are storks sometimes late?

Simple experiments (Klára Velmovská)



Beer workshop & simple experiments



Feedback (264 questionnaires)

		Age						Education						Satisfaction
men	women	< 14	14-18	18-25	25-30	30-40	> 40	elementary	High school	Bachelor	Master	PhD	Scientist	Enjoyed 1-5
117	132	21	14	63	53	58	55	26	75	35	113	8	5	4.60

- 1 Having your mind blown at a music festival in a cool educational way is AWESOME
- 2 It was very short for me. I would like to know more. I like this kind of science :)
- 3 Great, I would appreciate more info/presentation through whole Slovakia. It was easy understandable, Great experience. Thanks a lot
- 4 A little chaos with organisation of people (cloud chamber workshop)
- 5 Experiment could be explained in more detailed way (during cloud chamber workshop)
- 6 more talks connected with everyday life
- 7 We liked it very much (cloud chamber workshop) Thanks a lot to staff - all of them were very nice and willing to explain the experiment
- 8 bad air inside the tent
- 9 It was amazing! Only thing which I would improve is simpler explanation of physical phenomena - Physics For Dummies :) I want to see you next year!!!
- 10 For scientifically educated people talks with more difficult physics
- 12 More opportunities, SLI.DO for questions (or microphone in audience) or time for discussion
- 13 highly appreciate enthusiasm of speakers

Conclusions

- up to 5 000 visitors in the Magical science tent during two mornings at Pohoda

Key success elements:

- Connie Potter gives talk at 14th IPPOG meeting in 2017
- (inspired) Vojtech Pleskot organizes Physics programme in Ostrava in 2018
- IPPOG agrees to support event at Pohoda in 2019 with 1k EUR and this catalyzed further steps
- SVK: Pohoda physics team formed as Big Bang collective (Connie et al), 2 young ATLAS physicists, 2 theoretical physicists from Comenius U, CERN council member and IPPOG rep (Ivan) join forces
- Connie and her negotiating abilities



Cloud chamber workshop (Connie Potter)