

Rolf-Dieter Heuer, CERN director:

“There is a lot at stake in the second run of the LHC”

- Alan Guth, father of the cosmic inflation theory: “if BICEP2 results are not confirmed, it does not mean that the theory is not correct.”
- Carmen Vela: “Spain contributes 3.6% of the international physics production and hosts three big facilities: the ALBA synchrotron, the Canfranc Underground Laboratory and Gran Telescopio Canarias.”
- This afternoon there will be a session devoted to future accelerator facilities. And tomorrow, in the special session on cosmology and particle physics, the BICEP2 results will be discussed and the Planck collaboration will offer their prospects on the matter.

Valencia, 7th of July.- The final stage of the greatest meeting of particle physicists starts today. The plenary sessions of ICHEP will take place from today to Wednesday July 9th and they will be broadcasted live on the Internet.

Today’s session was opened by the Spanish I+D+i secretary of state, Carmen Vela, who stressed the Spanish contribution to this field: 3.6% of the international physics publications and three large Spanish facilities: the ALBA synchrotron in Barcelona, the Canfranc Underground Laboratory under the Pyrenees and Gran Telescopio Canarias, on the island of La Palma. The counselor of Education, Culture and Sport of the Generalitat Valenciana, María José Catalá, also dedicated some words to thank the Instituto de Física Corpuscular (IFIC) for bringing to Valencia the first Spanish ICHEP edition.

Rolf Heuer (CERN director general), Alan Guth (father of the cosmic inflation theory) and Juan Fuster (co-chair of the conference) have offered later a press conference. Heuer pointed out that “In Valencia we have provided a basis for the coming years” and, during his talk in the opening ceremony, Alan Guth stated that “despite BICEP2 has not confirmed yet the detection of primordial gravitational waves, cosmic inflation is still a successful theory”.

Heuer has also summarized the past days in ICHEP, two years after the discovery of the Brout-Englert-Higgs mechanism: “the Higgs boson has been the main character in Valencia. Nonetheless, in my opinion, the main message from the conference is that there is a lot at stake in the second run stage of the LHC, which will start next year. The experiments are ready to exploit the full potential of running at a higher energy”. In fact the LHC, considered a reference in high energy physics research, “is part of a global strategy on the field, which is coordinated with local plans in Europe, America and Asia, all converging to ensure the strength of the discipline in all the regions”.

Coming days

This afternoon one of the most expected sessions will be held, those on “Future accelerator facilities”. A round table with the heads of the most important accelerator laboratories of the world

will be organized, aimed at discussing the characteristics of the next generation of accelerations, which will be built in the next 50 years.

In the special session on cosmology and particle physics that will take place tomorrow Tuesday July 8th at 18:00h, the results of the Planck telescope, that will set the future expectations for the measurements of BICEP2, will be presented.

The very same 8th of July (18:30-21:00) INEUSTAR and CDTI will lead a special session where the opportunities that future particle physics projects could offer to Spanish companies will be discussed. The aim is to encourage an exchange of information between companies and research teams. Companies will present their technological capabilities and researchers will express their needs on the matter.

To follow the sessions live over the internet:

<http://home.web.cern.ch/scientists/updates/2014/07/webcast-all-latest-icheck-2014>



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