

7th Quantum Universe Symposium Groningen, scientific report

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The Seventh Quantum Universe Symposium took place on April 12 and 13, 2017. The first day of the symposium consisted of 3 masterclass lectures for MSc and PhD students, the second day of a workshop with 7 keynote and invited lectures. The venue for the masterclasses was the Confentiezaal in the KV, the venue for the workshop the Zernikeborg at the Zernike Campus of the University of Groningen.

The workshop gathered a mixed company of experts from theoretical physics, particle physics, astrophysics and cosmology. The special focus of the symposium was standard theories of physics, including a discussion on the standard model of particle physics, and modified gravity theories vs. the standard general theory of relativity. A highlight of the workshop were the 3 masterclass lectures by prof. H. Abele (the rainbow and expansion of the universe), prof. A. Denig (low-energy frontier standard model) and prof. R. Sanders (alternative gravities). All three masterclass lecturers also took care of keynote lectures. The other 4 invited/keynote lectures were by E. Verlinde (entropic gravity), K. Landsman (Fine-Tuning problem), K. Kuijken (Testing Verlinde's Gravity with Gravitational Lensing) and the keynote lecture and physics colloquium by S. de Jong (chair scientific board CERN) on the future of high energy physics.

Also for 2018 we have to started the organization of a QU8 meeting along the same lines, with a day with a series of masterclass lectures and a scientific workshop.