

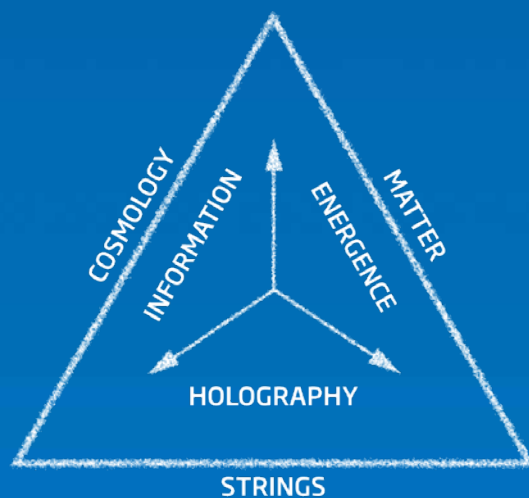
The big and the small of it

The Delta Institute for Theoretical Physics

Whether it is elementary particles, black holes or (quantum) matter, theoretical physics attempts to make sense of all of nature. What is a black hole made of? And how do you change the properties of materials? Following in the footsteps of physics giants such as Albert Einstein and Stephen Hawking, the Delta ITP consortium seeks to answer the most fundamental questions of our existence.

INFINITE SUBJECTS

The unique collaborations between the three participating institutes strengthen the unity of theoretical physics. After all, the main research themes - cosmology, matter, and strings - are sides of the same triangle. Within the Delta ITP consortium, the boundaries between physics disciplines are blurred, in order to get to the core of the matter.



University of Amsterdam

The Institute for Theoretical Physics in Amsterdam has quickly gained considerable prestige in Europe. The department is historically known for its pioneering research focussing on string theory and quantum matter. With help from Delta ITP, the department has been able to expand into the full breadth of theoretical physics, with big names like Erik Verlinde and Kareljan Schoutens, and up-and-coming talents like Miranda Cheng and Gianfranco Bertone among its ranks.

The Lorentz Institute for theoretical physics in Leiden is one of the oldest physics institutes in the Netherlands and has an impressive track record. There, the full breadth of physics is studied, with figureheads such as quantum scientist Carlo Beenakker, cosmologist Ana Achúcarro, and superconductivity expert Jan Zaanen. The nearby Lorentz Center is the ideal venue for hosting workshops and conferences.

Leiden University

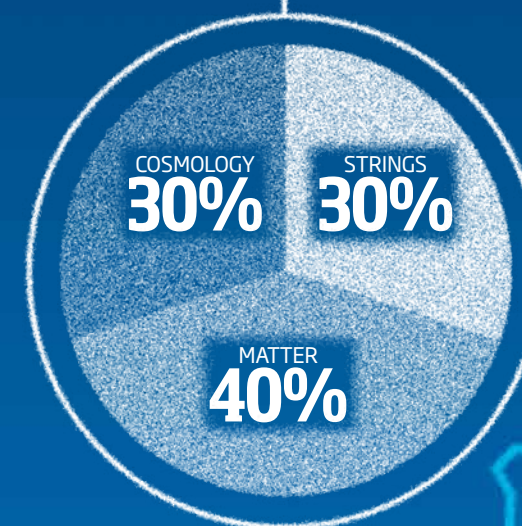
DELTA ITP ACTIVITIES

- PhD and postdoctoral research projects (41)
- Delta Fellowships (12)
- Guest researchers (over 100)
- Symposia, conferences, and workshops (over 100)
- Advanced Topics education courses (17)

Utrecht University

Utrecht is the home of Nobel laureate Gerard 't Hooft. Traditionally, research here has focused on fundamental questions, but scientists now also study topics such as cosmology and (sustainable) materials. In addition to figureheads Cristiane de Morais Smith and René van Rooij, the new generation - including Rembert Duine and Tanja Hinderer - is making considerable headway. The Advanced Topics education courses are organised from Utrecht.

50
PERMANENT
STAFF MEMBERS



120+
PHD'S AND POSTDOCTORAL
RESEARCHERS

APPROXIMATELY
60%
HAVE A VIDI, VICI OR
ERC SCHOLARSHIP