



Program FYSICA 2019
Friday, April 5
Amsterdam Science Park
www.fysica.nl

Tours

The following lab tours are offered during FYSICA 2019:

Startup Village (2x30)

Startup Village is located at Amsterdam Science Park. It is the home of the ACE University Incubator. Our industrial container village gives you that holiday feeling, that casual Friday vibe! In our Co-working space we offer great coffee. Beside office spaces we also have meeting rooms and an event space. Our offices are only available for startups. The tour will show you the Village and we will tell the story of the incubator program and some of the great Amsterdam Startups.

Website <https://startupvillage.nl/> and <https://ace-incubator.nl/>

AMOLF (2x30)

Using the tools of physics and design principles, AMOLF researchers study complex matter, such as light at the nanoscale, living matter, designer matter and nanoscale solar cells. These insights open up opportunities to create new functional materials and to find solutions to societal challenges.

Website <http://www.amolf.nl>

ARCNL (2x30)

At the Advanced Research Center for Nanolithography (ARCNL) exciting fundamental physics is carried out at the highest possible level with a relevance to key technologies in nanolithography. The institute wishes to contribute to the production of ever smarter and smaller electronics, while at the same time pushing the boundaries of our fundamental insight into the workings of nature.

Website <https://arcnl.nl>

Nikhef (2x45)

Nikhef is the Dutch National Institute for Subatomic Physics. The institute performs research into the elementary building blocks of the Universe, their mutual forces and the structure of space and time. Research at Nikhef focuses on particle physics and astroparticle physics. In these fields of physics, scientists study elementary particles.

Website <https://www.nikhef.nl>

UvA Institute of Physics (IoP) (2x45)

At the Van der Waals-Zeeman Institute (WZI) for experimental physics, scientists perform research in the areas of quantum gases & quantum information, hard condensed matter, and soft matter. Within these notably distinct topics the unifying theme is the study of emergent properties of complex matter, both classical and quantum. The WZI is a division of the Institute of Physics of the University of Amsterdam.

Website <http://iop.uva.nl/wzi>

UvA Anton Pannekoek Institute for Astronomy (API) (2x40)

Research at the Anton Pannekoek Institute for Astronomy addresses some of the major questions of astronomy: what is the nature of space and time? Are we alone? What are our cosmic origins? How are the most energetic explosions and particles in the universe powered? At our institute we focus on specific techniques and objects that we deem to be promising avenues for finding answers to the big questions. In this tour, we will show you the observatory where our students get their first experiences observing the night sky.

Website <http://api.uva.nl>

UvA Van 't Hoff Institute for Molecular Sciences (HIMS) (2x30)

Chemistry research at the Van 't Hoff Institute for Molecular Sciences (HIMS) of the University of Amsterdam entails the synergistic combination and concerted expertise of four well-established research themes: analytical chemistry, computational chemistry, molecular photonics and sustainable chemistry. The tour will guide you through our spectroscopy- and synthesis labs giving you a glimpse on our research on *Origins of life* and *Solar fuels*.

Website <http://hims.uva.nl>

QuSoft – Center for Quantum Software (2x20)

QuSoft is the Dutch research center for quantum software. The development of software for a quantum computer requires fundamentally different techniques than software for normal computers. During the tour (taking place at the Centrum voor Wiskunde en Informatica, CWI), the basic principles of quantum computing are addressed, and various quantum applications will be demonstrated.

Website <http://www.qusoft.org>

General tour of Amsterdam Science Park (2x15)

Amsterdam Science Park is home to one of Europe's biggest concentrations of scientific talent. The unique combination of high quality education, pioneering research and knowledge-intensive business boosts the kind of innovation that will transform our society in the future. Software for the quantum computers of tomorrow, new products that use CO₂ captured from the atmosphere, and crops with greater natural resistance to disease - these are just a few of the many cutting edge developments at Amsterdam Science Park. The tour will guide you through different highlights of the park.

Website <https://www.amsterdamsciencepark.nl/>