

# How the Higgs Theory gives mass to particles.

## 2014 STAG public lecture by Physics Nobel Laureate Gerard 't Hooft

Wednesday 1 October 2014  
2.30pm | Turner Sims

Physics Nobel Laureate Gerard 't Hooft will be giving the keynote lecture for the University of Southampton's pioneering Southampton Theory Astrophysics and Gravity (STAG) Research Centre.

A sub-atomic particle that has recently been discovered at the Large Hadron Collider of CERN, Geneva, is most likely the long-sought Higgs particle. This is often said to be the particle that gives mass to the other sub-atomic particles, by modifying the surrounding empty space. How does it do that, and what does this have to do with the fact that particles spin like little spinning tops? What spinning particles should we be looking for next?

The STAG Research Centre brings together world-leading academics from three research groups – Particle Physics, Astrophysics and Gravitation – to explore issues of fundamental physics and astronomy.

To book your free tickets please go to <https://www.turnersims.co.uk/events/stag-lecture-2014/>

Please contact Carol Mapstone on [C.Mapstone@soton.ac.uk](mailto:C.Mapstone@soton.ac.uk) for further information.

To find out more about the STAG Research Centre visit

[www.southampton.ac.uk/stag](http://www.southampton.ac.uk/stag)

