

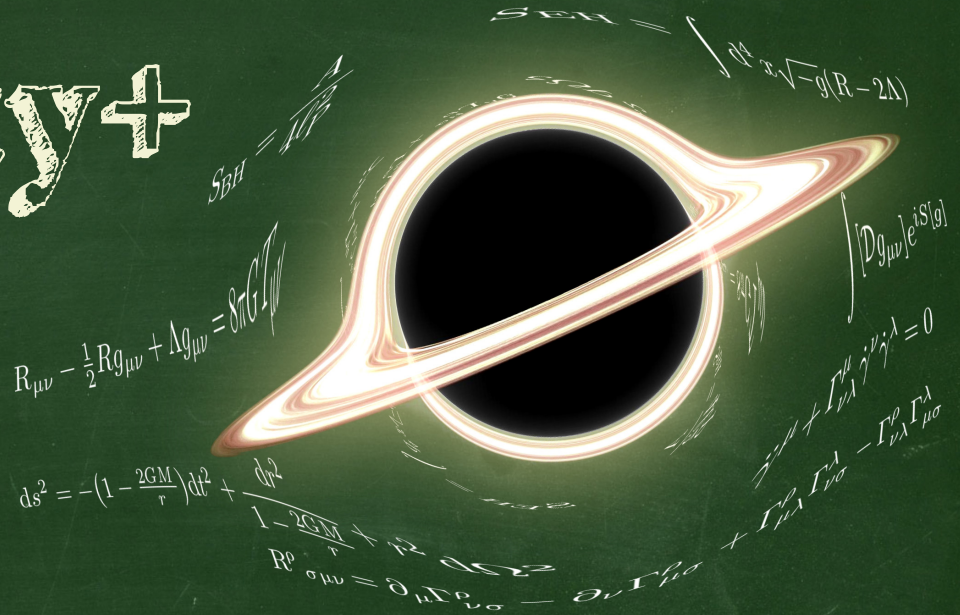
# New in our Science Master's Programmes

## Synergy Tracks

Available to students in the Master's specialisations of **Particle and Astrophysics** and **Mathematics**

### Gravity+

synergy track



### Courses

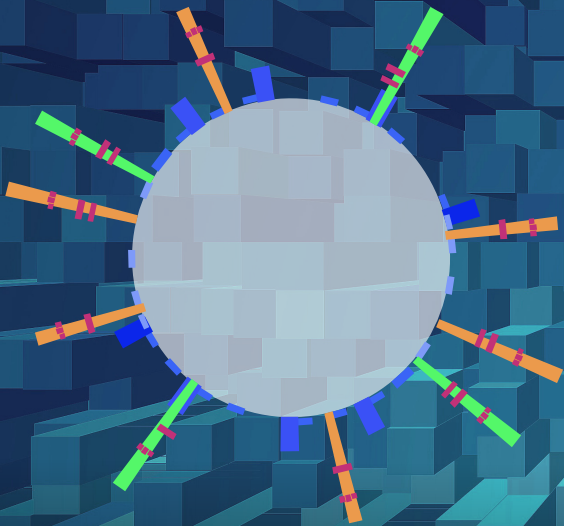
- General Relativity • Gravity Seminar • Black Holes and Accretion • Singularities and Black Holes • Quantum Gravity/Geometry •
- Compact Binaries & Gravitational Wave Sources • Black Hole Perturbation Theory & Foundations of Gravitational Waves •
- Nonlinear Wave Equations • Noncommutative Geometry • Calculus of Variations • Differential Geometry • Manifolds •

Details & Registration [www.ru.nl/masters/gravityplus](http://www.ru.nl/masters/gravityplus)

Available to students in the Master's specialisations of **Particle and Astrophysics**, **Physics of Molecules and Materials**, **Neurophysics**, **Physical Chemistry**, and **Mathematics**

### Computational & Data Science

synergy track



### Courses

- Numerical Methods • Advanced Programming • Machine Learning • Monte Carlo Techniques • Data Analysis •
- Machine Learning in Particle Physics and Astronomy • Astronomical Instrumentation and Data Analysis •
- Advanced Machine Learning • Advanced Computational Neuroscience • Machine Learning in Practice •

[www.ru.nl/masters/cds](http://www.ru.nl/masters/cds) Details & Registration

Radboud University

Nijmegen, the Netherlands

