

**NITheCS Colloquium**  
**Monday, 14 February 2022, 17h00 – 18h00**  
Prof Frans Pretorius (Princeton University)

**“Gravitational wave astrophysics: a status report”**



## **ABSTRACT**

I will review the state of the field of gravitational wave astrophysics, framing the challenges, current observations, and future prospects within the context of the predictions of Einstein's theory of general relativity.

## **BIOGRAPHY**

Frans Pretorius is a Professor of Physics at Princeton University.

His primary field of research is general relativity, focusing on regimes where dynamical, strong-field gravity is important. This includes understanding the nature of binary black hole and

neutron star mergers, the gravitational waves emitted during such collisions, gravitational collapse and black hole formation, the interior structure of black holes, early universe cosmology, and the stability and dynamics of higher dimensional black holes.

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