

DALHOUSIE MATHEMATICS COLLOQUIUM

Thursday March 29, 2:30 pm, Chase 319

Speaker: Sanjeev Seahra
(University of New Brunswick)

Einstein's ripples: listening to the violent universe with waves of gravity

In 2015, scientists directly detected ripples in the geometry of the universe generated by an astrophysical event for the first time. This heralded a new era of astronomy: objects that were previously invisible could be studied, and a brand new observational window on previously puzzling phenomena was opened. This talk will give an accessible introduction to gravitational waves and how they arise in Einstein's general theory of relativity, as well as a status report on the wealth of information uncovered since the initial Nobel Prize winning discovery.