

Fall 2019 Colloquium

Department of Physics & Astronomy, TAMU-Commerce

Nov 14, Thursday, 4-5 PM in Science Building 127

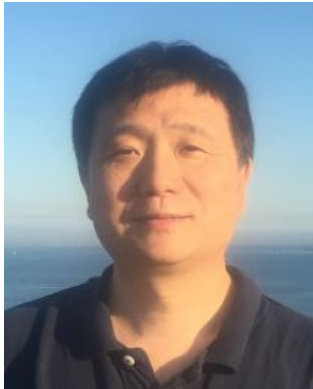
(coffee and cookies will be served at 3:50 PM)

Astrophysics

Electromagnetic counterparts of gravitational waves

Dr. Bing Zhang

University of Nevada at Las Vegas



Dr. Bing Zhang is a Professor of Astrophysics and Associate Dean for Research of College of Sciences at University of Nevada, Las Vegas, and a Fellow of American Physical Society. His research direction is multi-wavelength, multi-messenger, transient high-energy astrophysics. His latest research interests include electromagnetic counterparts of gravitational waves, fast radio bursts and gamma-ray bursts. He has published over 400 refereed papers with more than 24000 citations. More information about Dr. Zhang can be found at

<http://www.physics.unlv.edu/~bzhang/index.html>

Abstract

I will discuss several expected electromagnetic (EM) counterparts of gravitational wave (GW) events, including short gamma-ray bursts, their afterglows, and kilonovae. I will discuss how GW170817/GRB 170817A/AT2017gfo have confirmed these predictions and raised additional open questions in understanding EM counterparts of GWs. Finally, I will discuss several yet-discovered EM signals possibly associated with GW events.