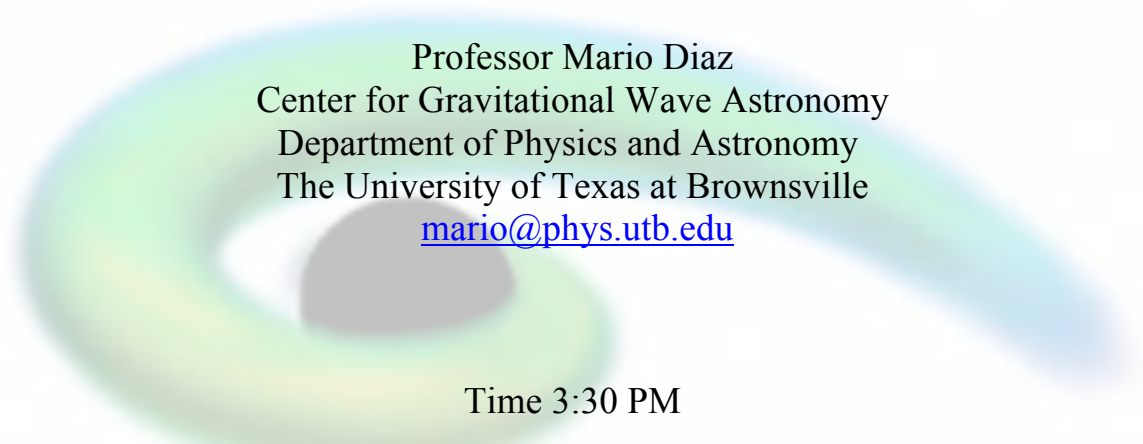


**SEMINAR**  
**DEPARTMENT OF PHYSICS**  
**The Thunder and the Lightning:**  
**University of Texas at Brownsville's efforts to**  
**"See" the Sounds of Gravity**



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Time 3:30 PM

Wednesday, April 30<sup>th</sup>, 2014

Room 243, L.H.O. Technology

**ABSTRACT**

In this seminar I will describe UTB's scientists and students efforts to build an astronomical observatory in the southern hemisphere. Some current models of neutron star mergers predict the emission of electromagnetic afterglows associated with the cataclysm. This could have extreme relevance to the detection of gravitational waves produced during the event. I will discuss how the quasi-simultaneous observations of both events could greatly improve the understanding of gravitational wave observations and the astrophysics behind the phenomena. I will also explain how an astronomical observatory in the south could be a valuable instrument in this hunt for the first detection of the music of the stars.