



Contribution ID: 1

Type: **Public Lecture**

Astronomy's "Next Big Thing:" What can we expect from direct observations of Einstein's elusive predictions?

Tuesday, 10 October 2017 18:00 (1 hour)

Advanced LIGO provided humanity with the first direct detection of gravitational waves, just in time for the 100th anniversary of Einstein's prediction. Beyond the discovery, there is a growing focus on incorporating gravitational waves as a new window on the Universe addressing questions from violent cosmic transients to cosmological enigmas. I will discuss some aspects of (i) the instrumental breakthroughs that enabled the unprecedented sensitivity reached by Advanced LIGO and (ii) the key scientific directions in which gravitational wave searches can be utilized, directly as well as in the context of multimessenger astronomy.

Primary author: Prof. SZABOLCS, Marka (Columbia University, NY, USA)

Presenter: Prof. SZABOLCS, Marka (Columbia University, NY, USA)

Session Classification: Public Lecture II