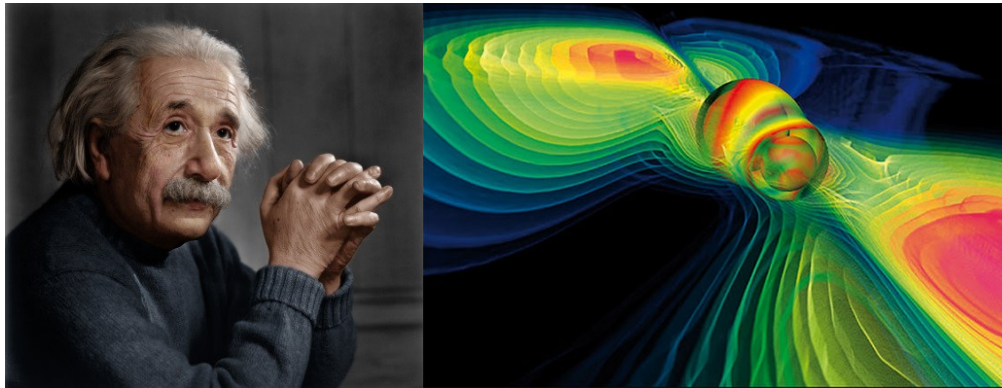


Lincoln Towers University Third Thursday Science Pop-Up lecture



## AUTHENTICATING EINSTEIN: GRAVITATIONAL WAVES



When Albert Einstein published his Theory of General Relativity and Gravity in 1916, one of the predictions that he made was that if large masses collided and coalesced the large amount of mass lost in the process would show up as gravitational waves which would propagate from the source at the speed of light. Einstein calculated that the amplitude of such waves would be so small as to be unobservable. And yet a hundred years later, on September 14, 2015 the observation of such waves occurred at two different laboratories. The amplitudes were indeed incredibly small, but thanks to the work of physicists and engineers at the LIGO Laboratories over many years the observations were authenticated.

We will discuss the LIGO experiments and the search for gravitational waves.

The lecture: **Thursday January 18, 2018 at 7:30 PM in 180 WEA 1G, P.O. Office.**

Registration: Stephen Orenstein, Physics Professor Emeritus, at [s.orenstein@verizon.net](mailto:s.orenstein@verizon.net) . \$5 fee for Project Open is requested at the door.