## **Department of Physics Colloquium**



## **Xavier Siemens**

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## **Building a Galactic Scale Gravitational Wave Observatory**

or the better part of the last decade, the North
American Nanohertz Observatory for Gravitational
Waves (NANOGrav) has been using the Green Bank
and Arecibo radio telescopes to monitor millisecond
pulsars. NANOGrav aims to directly detect low-frequency
gravitational waves which cause small changes to the
times of arrival of radio pulses. In this talk I will discuss the
work of the NANOGrav collaboration and our sensitivity to
gravitational waves from astrophysical sources. I will show
that a detection is possible in the next few years.



Friday, October 9, 2015

3:30 pm | 2241 Chamberlin Hall

Coffee & Cookies at 3:15 pm