

# Journal Club

**Kevin McFarland**  
University of Rochester



## Neutrino Oscillation Results from T2K

T2K recently released neutrino oscillation results with a small fraction of its planned eventual exposure. These results establish the appearance of electron neutrinos from a muon neutrino beam, and provide the most precise measurements of the parameters governing the disappearance of muon neutrinos. Together with measurements of electron anti-neutrino disappearance at reactors, these results provide the first constraints on the most interesting unknown in neutrino mixing, the phase which governs CP violation in neutrino oscillations.



**Friday, Mar. 14, 2014, 4pm**  
301 Physical Sciences Building  
Refreshments, 3:45pm