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TIME: Wednesday, 2:30 PM, Oct. 23, 2013 **LOCATION: A601 NAOC**

Cosmic Tides

Prof. Ue-Li Pen

Canadian Institute for Theoretical Astrophysics

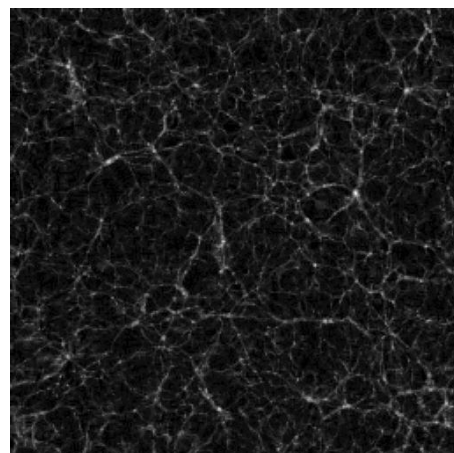


Dr. Ue-Li Pen is a professor and the associate director of the Canadian Institute for Theoretical Astrophysics in Toronto, Canada. Born and raised in Germany, Dr. Pen attended high school in Guelph, Ontario, and then completed a year at the University of Waterloo before transferring to the

National Taiwan University where he received a B.Sc. in Mathematics in 1989. He completed his M.Sc. in Electrophysics at the National Chiao-Tung University, Taiwan in 1991, and his Ph.D. in Astrophysical Sciences at Princeton University in 1995. In his final year at Princeton, he was awarded the prestigious Porter Ogden Jacobus Fellowship. Before joining CITA, he was a Harvard University Junior Fellow (1995-98). His research interests are theoretical cosmology: cosmological reionization, structure formation, magneto-fluid dynamic simulations, gravitational lensing, CMB.

Abstract

I present a technique to reconstruct cosmic gravitational tidal fields from the alignment of large scale structure. This technique is verified in simulations and SDSS data. We discuss future applications to precision mapping of dark matter and potential for breaking cosmic variance limits.



All are welcome! Tea, coffee, biscuits will be served at 2:15 P.M.

You are welcome to nominate speakers to Weimin Yuan (wmy@nao.cas.cn), Mei Zhang (zhangmei@bao.ac.cn), Licai Deng (licai@bao.ac.cn), Xuelei Chen (xuelei@cosmology.bao.ac.cn), Shude Mao (smao@nao.cas.cn)