

## $\Lambda$ -LTB Cosmology at KEK Theory Center

### PROGRAM

October 20 (Tue)

10:30- 11:30 **Registration**

11:30-12:00 [Opening](#)

12:00-13:30 Lunch Break

13:30-15:00 [Michael Blomqvist](#) (Stockholm U)

*“Observers in a local void - constraints from new supernova data”*

15:00-15:30 Coffee Break

15:30-16:30 [Naoki Itoh](#) (Sofia U)

*“Seeing galaxy clusters through cosmic microwave background:  
Sunyev-Zeldvich effect”*

17:00-18:00 [Chul-Moon Yoo](#) (APCTP)

*“kSZ effect in inhomogeneous universes”*

19:00-21:00 Welcome Dinner (Invited People Only)

October 21 (Wed)

10:30-12:00 [Istvan Szapudi](#) (U Hawaii)

*“The Effect of Supervoids and Superclusters on the Cosmic Microwave Background”*

12:00-13:30 Lunch break

13:30-15:00 **Kaiki Inoue** (Kinki U)

*“Evidence of Super-structures in the Cosmic Microwave Background”*

15:00-16:00 Coffee Break

16:00-17:30 [Valerio Marra](#) (U Jyvaskyla)

*“Toy models for the inhomogeneous universe”*

17:30-18:30 [Tomohiro Kai](#) (Osaka City U)

*“On the time variation of cosmological redshift in LTB model”*

19:00-22:00 **Banquet at Urban Hotel**

## October 22 (Thu)

10:30-12:00 [Kenji Tomita](#) (Prof. Emeritus of Kyoto U)*“Perturbations and the integrated Sachs-Wolfe effect in a self-similar LTB cosmological model”*

12:00-13:30 Lunch break

13:30-15:00 [Nobuyuki Sakai](#) (Yamagata U)*“Imprints of Nonlinear Structures on CMB”*

15:00-16:00 Coffee Break

16:00-16:30 **Ken-ichi Nakao** (Osaka City U)*“Comments on the paper ‘Supernovae data and perturbative deviation from homogeneity’, Kari Enqvist, Maria Mattsson, Gerasimos Rigopoulos: JCAP 0909:022, 2009.”*16:30-17:30 **Keiki Saito** (Sokendai/KEK)*“Analytic formulae for CMB anisotropy in the LTB cosmology”*

## October 23 (Fri)

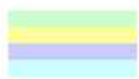
10:30-12:00 [Timothy Clifton](#) (Oxford U)*“The optical properties of inhomogeneous space-times before and after averaging”*

12:00-13:30 Lunch break

13:30-15:00 [Shinji Tsujikawa](#) (Tokyo U Sci.)*“Observational signatures of modified gravity models of dark energy”*

15:00 Closing

Date	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
Oct. 20 (Tue)	Registration	Opening	Lunch		M. Blomqvist		Itoh, Naoki	C.M. Yoo			
Oct. 21 (Wed)		I. Szapudi	Lunch		K. Inoue		V. Marra	T. Kai			WS Dinner (Urban H.)
Oct. 22 (Thu)		K. Tomita	Lunch		N. Sakai		Nakao	K. Saito			
Oct. 23 (Fri)		T. Clifton	Lunch		S. Tsujikawa						



invited talks  
talks by general participants  
Discussion  
Free time