

2017 Spring School On Cosmology

- “Early Universe: Theory and Observations”

February 26th - March 3rd 2017, Shanghai

The Department of Physics at Fudan University and the Department of Astronomy at the University of Science and Technology of China will host the international Spring School on “Early Universe Cosmology: Theory and Observations” from February the 26th 2017, Sunday, to March the 3rd 2017, Friday. The school will be held in the Handan Road campus of Fudan University. All graduate students in the field of cosmology, high energy astrophysics as well as theoretical physics are most welcome to attend the School.

The exploration of the early universe physics lies in the centre of the scopes of cosmologists, astro-physicists and fundamental physicists. Thanks to the great developments in a number of cosmological experiments in the past decades, our knowledge about the early universe can be traced back to the moment near the big bang. Based on consolidated analyses of cosmological perturbations, a number of theoretical predictions were made within the standard paradigm of the inflationary hot big bang for the observations of the cosmic microwave background radiation and the large scale structure of our universe. From an observational point of view, many predictions from the inflationary hot big bang have been verified and measured with very high precision, leading us to a new era of the so-called "precision cosmology". All these cutting-edge topics in the field of the early universe cosmology are tightly related and still keep bringing us surprises, and thus, have attracted a lot of interest of young researchers. After the accomplishment of the Planck satellite mission by the European Space Agency, cosmologists are gradually converging to an agreement about initiating a next generation of CMB experiments worldwide. In particular, a new CMB polarization project is under design in the Ali region of Tibet, China.

With the purpose of improving the preparation of young students who are interested in related fields, we organize the 2017 Spring School on Cosmology - “Early Universe: Theory and Observations”, which covers several hot topics including, but not limited to, the standard hot big bang model, inflationary models, cosmological perturbation theory, the CMB physics, cosmological gravitational waves, the large scale structure of the universe, and so on.

Time: from February 26th to March 3rd.

Location: Handan Road campus, Fudan University, Shanghai.

Honored Lecturers:

Yacine Ali-Haimoud (John Hopkins University),

Robert Brandenberger (McGill University),

Arthur Kosowsky (University of Pittsburgh),

Leonardo Senatore (Stanford University),

Yi Wang (Hong Kong University of Science and Technology),

Pengjie Zhang (Shanghai Jiao Tong University).

Programs: Click [HERE](#) for details.

How to register:

Due to the international affair policy of Fudan University, this time only students with Chinese nationality are allowed to register for the School.

Early Bird: 800 RMB. Please make the bank transfer to the account provided below:

Account Name: 复旦大学 Fudan University

Account No.: 4377 5925 2978

Bank Name: 044159 中国银行上海市国定路支行

044159 Bank of China Shanghai Guo Ding Road Sub-Branch

Bank Address: 上海市国定路 290 号, 邮编 200433

No 290 Guo Ding Road, Shanghai 200433, P. R. China

Bank Swift Code: BKCHCNBJ300

by February 1st.

Please DO KEEP the **original receipt** including a record with your name, affiliation and the use information, and then send a scanned version by email with an subject as "2017 Spring School on Cosmology Registration/Your Name" to "fdu_ustc_cosmology_school@yahoo.com" and/or "yifucai@fudan.edu.cn". You will receive a FaPiao at the front desk of registration by showing the original receipt.

Regular: 1000 RMB.

We can accept cash (preferred) and bank transfer (conditionally) on the registration day. FaPiao will be ready on March 2nd, on Thursday.

Unfortunately, we cannot provide much support due to the strict finance policy. The students will need to solve all travel and local accommodations by themselves. However, we will be very delighted to provide daily meals at University cafeteria, including lunch and dinner tickets.

Following-up Event:

Accompanied with the Spring School, the Department of Astronomy at the University of Science and Technology of China and the Department of Physics at Fudan University, together with other institutions, will host the annual NSFC "Galaxies and Quasars" Innovation Group Workshop Series - 2017 CfA@USTC Junior Cosmology Symposium on "Early Universe Physics and Chinese Ali CMB Project" from March 3rd, Friday to March 5th, Sunday at the city of Hefei. Please see here for details.

Organizing committee: Yi-Fu Cai, Antonino Marciano, Yong-Shi Wu, Wen Zhao, Yang Zhang

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Sponsors:

Department of Physics, Fudan University
Department of Astronomy, School of Physical Sciences, USTC
The NSFC Director Fund for Chinese Ali project
The NSFC "Galaxies and Quasars" Innovation Group
CAS Key Laboratory of Cosmology and Galaxy