

2010
NSFC

PART X
Other work of NSFC

Evaluation of State Key Labs in mathematics, physics and earth sciences

In 2010, the Ministry of Science and Technology entrusted NSFC to evaluate 48 State Key Labs in mathematics, physics and earth sciences (11 in mathematics and physics, and 37 in earth sciences). According to the Rules of Evaluation of State Key Labs promulgated by the Ministry of Science and Technology, and the detailed regulations for the evaluation of State Key Labs stipulated by NSFC, the evaluated labs in mathematics and physics were divided into 2 groups. The on-site evaluation was conducted from March 21 to April 1. 18 evaluation experts were invited. The evaluated labs in earth sciences were divided into 6 groups. The on-site evaluation was conducted from April 5 to April 21 and 54 evaluation experts were invited. The evaluation experts made overall review on the performance of the labs from 2005 to 2009 in such aspects as the research quality and academic contributions, research team and talent fostering, the openness and academic exchanges, and the operation and management. While giving full credits to the achievements, they also pointed out the shortcomings of the labs, and set higher standard for their future development.

The second round of evaluation took place in Beijing on May 25 for math and physics and on May 19 to 21 for earth sciences. 16 experts in math and physics, and 26 in earth sciences were invited for the evaluation on those labs entering the second round.

After on-site evaluation and the second round evaluation, concluding results of the evaluation and ranking results were reached. The Ministry of Science and Technology announced in October the results of evaluation on State Key Labs in math, physics and earth sciences, naming 3 excellent labs, and 8 good labs (including one exempted from evaluation) in math and physics and 10 excellent labs and 25 good labs in earth sciences.

The following are the evaluation results:

Results of evaluation on State Key Labs in math and physics and earth sciences in 2010

Math and physics

Table 10-1

| Lab name | Home institution | Governing department |
|---|--|-----------------------------|
| Excellent labs | | |
| State Key Lab of Nonlinear Mechanics | Institute of Mechanics, CAS | Chinese Academy of Sciences |
| State Key Lab of Micro Structural Physics of Solids | Nanjing University | Ministry of Education |
| State Key Lab of Artificial Microstructure and Meso Physics | Peking University | Ministry of Education |
| Good labs | | |
| State Key Lab of Semiconductor Super Lattice | Institute of Semiconductor, CAS | Chinese Academy of Sciences |
| State Key Lab of Spectrum and Atomic and Molecular Physics | Wuhan Institute of Physics and Mathematics, CAS | Chinese Academy of Sciences |
| State Key Lab of Nuclear Physics and Nuclear Technology | Peking University | Ministry of Education |
| State Key Lab of Precision Spectrum Science and Technology | East China Normal University | Ministry of Education |
| State Key Lab of Science and Engineering Computation | Academy of Mathematics and System Sciences, CAS | Chinese Academy of Sciences |
| State Key Lab of Strong Field Laser Physics | Shanghai Institute of Optics and fine Mechanics, CAS | Chinese Academy of Sciences |
| State Key Lab of Acoustic Field and Acoustic Information | Institute of Acoustics, CAS | Chinese Academy of Sciences |
| State Key Lab of Applied Surface Physics | Fudan University | Ministry of Education |

Note: In phonetic order of Pinyin.

State Key Lab of Strong Field Laser Physics exempted from evaluation.

Earth sciences

Table 10-2

| Lab name | Home institution | Governing department |
|---|--|---|
| Excellent labs | | |
| State Key Lab of Survey and Remote Sensing Information Engineering | Wuhan University | Ministry of Education |
| State Key Lab of Numerical Simulation of Atmospheric Science and Geo Fluid Dynamics | Institute of Atmospheric Physics, CAS | Chinese Academy of Sciences |
| State Key Lab of Frozen Soil Engineering | Cold and Arid Regions Environmental and Engineering Research Institute, CAS | Chinese Academy of Sciences |
| State Key Lab of Marine Geology | Tongji University | Ministry of Education |
| State Key Lab of Environmental Chemistry and Eco Toxicology | Research Center for Eco-Environmental Sciences, CAS | Chinese Academy of Sciences |
| State Key Lab of Loess and the Quaternary Period Geology | Institute of Earth Environment, CAS | Chinese Academy of Sciences |
| State Key Lab of Coastal Marine Environmental Science | Xiamen University | Ministry of Education |
| State Key Lab of Modern Paleontology and Stratigraphy | Nanjing Institute of Geology and paleontology, CAS | Chinese Academy of Sciences |
| State Key Lab of Lithosphere Evolution | Institute of Geology and Geophysics | Chinese Academy of Sciences |
| State Key Lab of Resources and Environmental Information System | Institute of Geographic Sciences and Natural Resources Research, CAS | Chinese Academy of Sciences |
| Good labs | | |
| State Key Lab of Cryosphere Science | Cold and Arid Regions Environmental and Engineering Research Institute, CAS | Chinese Academy of Sciences |
| State Key Lab of Urban Water Resources and Water Environment | Harbin Institute of Technology | Ministry of Industry and Information Technology |
| State Key Lab of City and Regional Ecology | Research Center for Eco-Environmental Sciences, CAS | Chinese Academy of Sciences |
| State Key Lab of Continental Dynamics | Northwest University | S&T Department of Shaanxi Province |
| State Key Lab of Atmospheric Boundary Layer Physics and Atmospheric Chemistry | Institute of Atmospheric Physics | Chinese Academy of Sciences |
| State Key Lab of Surface Process and Resources Ecology | Beijing Normal University | Ministry of Education |
| State Key Lab of Geological Process and Mineral Resources | China University of Geosciences | Ministry of Education |
| State Key Lab of Geo Disasters Control and Geo Environmental Protection | Chengdu University of Science and Technology | S&T Department of Sichuan Province |
| State Key Lab of Estuary and Coastal Science | East China Normal University | Ministry of Education |
| State Key Lab of Lake and Environment | Nanjing Institute of Geography and Limnology, CAS | Chinese Academy of Sciences |
| State Key Lab of Environmental Geochemistry | Institute of Geochemistry | Chinese Academy of Sciences |
| State Key Lab of Environmental Simulation and Pollution Control | Tsinghua University, Research Center for Eco-Environmental Sciences, CAS, Peking University, Beijing Normal University | Ministry of Education |
| State Key Lab of Loess Plateau Soil Erosion and Arid Agriculture | Center for Water Conservancy and Eco-environmental Research | Chinese Academy of Sciences |
| State Key Lab of Space Climate | Center for Space Science and Applied Research, CAS | Chinese Academy of Sciences |
| State Key Lab of Mineral Deposit Geochemistry | Institute of Geochemistry, CAS | Chinese Academy of Sciences |
| State Key Lab of Coal Resources and Safe Excavation | China University of Mining and Technology | Ministry of Education |
| State Key Lab of Endogenous Metal Deposit Mechanism | Nanjing University | Ministry of Education |
| State Key Lab of Soil and Agricultural Sustainable Development | Institute of Soil Science, CAS | Chinese Academy of Sciences |
| State Key Lab of Pollution Control and Resource Research | Tongji University, Nanjing University | Ministry of Education |
| State Key Lab of Remote Sensing Science | Institute of Remote Sensing Application, Beijing Normal University | Chinese Academy of Sciences |
| State Key Lab of Oil and Gas Deposit Geology and Development Engineering | Southwest University of Petroleum, Chengdu University of Science and Technology | S&T Department of Sichuan Province |
| State Key Lab of Oil and Gas Resources and Exploration | China University of Petroleum (Beijing) | Ministry of Education |
| State Key Lab of Organic Geochemistry | Guangzhou Institute of Geochemistry, CAS | Chinese Academy of Sciences |
| State Key Lab of Disaster Climate | Chinese Academy of Meteorological Sciences | China Meteorological Administration |
| State Key Lab of Vegetation and Environmental Change | Institute of Botany, CAS | Chinese Academy of Sciences |

Note: in phonetic order of Pinyin.

Shuangqing Forum

“Shuangqing Forum” is academic workshops sponsored by NSFC to promote innovative culture and create good environment for innovation. Focusing on NSFC’s funding work, it mainly discusses scientific issues in frontier of sciences or in relation to the demand of national strategic development, and major policy and management issues about interdisciplinarity and disciplinary integration in basic science

In 2010, “Shuangqing Forum” focused on the formulation of NSFC “12th Five-Year Plan” and 13 sessions were held through the year. About 800 person-times of experts and scholars from nearly 160 institutes and universities attended the forum, among which, 67 person-times of member of the two Academies, and about 40 of overseas experts.



The 52ed Session: Stem Cells and Diseases.



The 44th Session: Key Scientific Problems in Nuclear Energy Development.



The 48th Session: Scientific Basis of Clean Energy and Energy Saving and Emission Reduction.



The 53rd Session: Research Integrity and Misconducts in Science.



The 45th Session: Bionic Materials and Devices.



The 49th Session: Key Scientific Problems of Toxicology and Evaluation of Health Risks.



The 54th Session: High Performance Photoelectric Functional Materials and Devices.



The 46th Session: Several Important Scientific Issues in Precise Agriculture and Information Technology.



The 50th Session: Computational and Experimental Methods in Management Science.



The 55th Session: Theoretical Basis and Operation Mechanism of Science Funding Communities.



The 47th Session: Basic Theory and Key Technology of Space Information Network.



The 51st Session: Important Basic Scientific Problems and Key Technologies in Bioinformatics.



The 56th Session: Innovations and High Points in Greenhouse Gas Control in Fossil Energy Power Systems.