

# International Summer School on TeV Experimental Physics (iSTEP 2014)

Hosted by Institute of High Energy Physics (IHEP), Beijing  
August 20-29, 2014

iSTEP is aimed to guide the first steps of the beginners at particle physics, such as senior undergraduate and young graduate students. As an experimental summer school, hands-on tutorials will be provided and honor prizes will be announced at the end of school.

## Theoretical Topics:

Electroweak Theory  
QCD Theory  
Collider Physics Phenomenology  
Higgs Physics Phenomenology  
Super Symmetry – SUSY Theory  
Non-SUSY Beyond Standard Model  
Monte Carlo Simulation and Event Generator  
Future of TeV Physics



The inaugural summer school on TeV experimental physics will provide lectures on both theoretical and experimental particle physics to develop our understanding of physics at the TeV scale.

## Experimental Topics:

Accelerator Physics  
Detector and Event Reconstruction  
Calorimeter  
Tracking and Vertexing Detector  
Muon Detector  
Trigger and Data Acquisition System  
Statistics Methods in Particle Physics  
Higgs Physics Experiments  
Standard Model Precision  
Measurements at Collider Experiments  
Hadron Physics Experiments  
Top Quark Physics Experiments  
SUSY Searches at Collider Experiments  
Non-SUSY New Physics Searches at Collider Experiments

Apply before 15<sup>th</sup> June 2014 at:

<http://indico.ihep.ac.cn/conferenceDisplay.py?confId=4127>

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