

Higgs pair production at future colliders



Speaker: Dr. Enkhbat Tsedenbaljir
Host: Prof. Jianchun Wang
Time: 10:00 am, 17 July, 2026
Location: 122 Multidisciplinary Building
Indico: indico.ihep.ac.cn/event/30212
Zoom ID: 9405 6525 692
Password: 260717

Abstract:

Higgs pair production probes the Higgs self-coupling and, therefore, the shape of the Higgs potential. In this talk, I review the Standard Model mechanism and the current experimental status for Higgs pair production. The cross-section of the process vanishes at the threshold in the Standard Model. Hence, it is very sensitive to any modification. Such an example is given for a non-perturbative Higgs potential. The primary source of the modification are the non-canonic kinetic term and the Higgs coupling to vector bosons.

About the speaker:

Dr. Enkhbat Tsedenbaljir is the Head of High Energy Physics Division, Institute of Physics and Technology, Mongolian Academy of Sciences, and a leading scholar in high energy physics in Mongolia. He holds a B.S. and M.S. in theoretical physics from the National University of Mongolia, an ICTP Diploma in High Energy Physics from Abdus Salam International Centre for Theoretical Physics, and a Ph.D. in high energy theory from Oklahoma State University, USA. His research covers supersymmetry, flavor physics, hadron collision physics and other frontier topics in theoretical high energy physics. With postdoctoral experience at ICTP and National Taiwan University, he has rich international cooperation experience and strong research management capabilities, and has long led the discipline development and international exchanges of high energy physics in Mongolia.