



# Two Days with Particle Physics Workshop

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Meeting Opening – 2021,11,17



**BIG WELCOME**  
**TO YOU ALL**

# The 3rd “Two Days with Particle Physics”



Selections from particle physics or HEP research subjects

Day 1: 2021,11,17

- ▶ Reminiscences of Steven Weinberg and his Impact in HEP
- ▶ Quantum Chromodynamics at Hadron Colliders

# The 3rd “Two Days with Particle Physics”



Day 2: 2021,11,18

- ▶ Majorana Fermions in High Energy and Solid State Physics
- ▶ String Swampland Conjectures and Implications for Phenomenology
- ▶ Probing bottom Yukawa couplings at future electron-proton colliders
- ▶ CMS probes for beyond the standard model physics via Higgs boson
- ▶ The generation of matter-antimatter asymmetries and hypermagnetic fields by the chiral vortical effect of transient fluctuations
- ▶ The future of Collider Physics
- ▶ The effects of non-helical component of hypermagnetic field on the evolution of the matter-antimatter asymmetry, vorticity, and hypermagnetic field
- ▶ An overview to particle physics phenomenology research subjects

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For questions/issues concerning the meeting, please send an email to: [abdussalam@sbu.ac.ir](mailto:abdussalam@sbu.ac.ir), [m\\_ghasemkhani@sbu.ac.ir](mailto:m_ghasemkhani@sbu.ac.ir)