



**Institute for Advanced Studies
in Basic Sciences**

Gava Zang, Zanjan, Iran

26th IASBS Physics School, 10-15 July 2021

Day 1, 10 July, Saturday

Time	Speaker	From	Title
IR: 13:30 UTC: 9:00	Opening		
IR: 14:30 UTC: 10:00	Hossein Haghi	Institute for Advanced Studies in Basic Sciences, Iran	The Mystery of the Distance Determination of Galaxies
15 min	Break		
IR: 16:00 UTC: 11:30	Keivan Aghababaei Samani	Isfahan University of Technology	An Introduction to Evolutionary Dynamics
15 min	Break		
IR: 17:30 UTC: 13:00	Babak Seradjeh	Indiana University, USA	Engineering Topological Phases of Synthetic Quantum Matter

Day 2, 11 July, Sunday

Time	Speaker	From	Title
IR: 14:30 UTC: 10:00	Vahid Karimipour	Sharif University of Technology, Iran	Introduction to Classical and Quantum Information Theory
15 min	Break		
IR: 16:00 UTC: 11:30	Faegheh Hajizadeh	Institute for Advanced Studies in Basic Sciences, Iran	Measuring the Mechanical Properties of a Cell with Optical Tweezers
15 min	Break		
IR: 17:30 UTC: 13:00	Farshid Mohammad-Rafiee	Institute for Advanced Studies in Basic Sciences, Iran	Biophysical Aspects of Nucleosome Structure and Dynamics

Day 3, 12 July, Monday

Time	Speaker	From	Title
IR: 14:30 UTC: 10:00	Ali Ghorbanzadeh	Institute for Advanced Studies in Basic Sciences, Iran	Symmetry and Topology in Condensed Matter
15 min	Break		
IR: 16:00 UTC: 11:30	Nima Dehghani	Tufts University, USA	Multiscale Cortical Dynamics: A Viewpoint from Physics of Information Processing
15 min	Break		
IR: 17:30 UTC: 13:00	Mehran Kardar	Massachusetts Institute of Technology, USA	Competitive Growth on a Rugged Front

Day 4, 13 July, Tuesday

PhD Day

Day 5, 14 July, Wednesday

Time	Speaker	From	Title
IR: 14:30 UTC: 10:00	Alireza Valizadeh	Institute for Advanced Studies in Basic Sciences, Iran	How Brain Learns?
15 min	Break		
IR: 16:00 UTC: 11:30	Vahid Sandoghdar	Max Planck Institute, Germany	Progress and Challenges in Light Microscopy
15 min	Break		
IR: 17:30 UTC: 13:00	Mohammad Hasan Vahidinia	Institute for Advanced Studies in Basic Sciences, Iran	The Art of Dimensional Analysis and Order of Magnitude Physics

Day 6, 15 July, Thursday

Time	Speaker	From	Title
IR: 14:30 UTC: 10:00	Alireza Moradi	Institute for Advanced Studies in Basic Sciences, Iran	Three-Dimensional Imaging
15 min	Break		
IR: 16:00 UTC: 11:30	Maniya Maleki	Institute for Advanced Studies in Basic Sciences, Iran	Active Matter: From Living to Artificial Self-Propelled Particles
15 min	Break		
IR: 17:30 UTC: 13:00	Niayesh Afshordi	University of Waterloo, Canada	Into the Unknown: From the Cosmos to the Coronavirus
IR: 19:00 UTC: 14:30	Closing		