

Sr #	Title	Speaker	Date
1	Mobile Gaming Industry and What it has to offer	Qasim M. Assad	Dec 10 2021
2	Modeling the Transmission of COVID-19: The Good, the Bad and the Ugly	Dr Adnan Khan	Dec 13 2021
3	Mobile Gaming Industry and What It Has to Offer	Mr. Qasim M. Assad	Dec 10 2021
4	Changing the World by Teaching Coding	Ms. Sadaf Rehman	Dec 02 2021
5	Zero Trust Security Model Implementation Challenges for High-Performance Computing	Dr. Sadaf Alam	Dec 10 2021
6	Predictive Design of Advanced Energy Materials	Dr. M. Usman Muzaffar	Nov 26 2021
7	On the Tjurina Number of Projective Plane Curves	Prof. Alexandru Dimca	Nov 29 2021
8	Semicontinuity for Families of Power Series and Applications to Singularity Invariants and Computational Algorithms	Professor Gert-Martin Greuel	Nov 22 2021
9	Long-Distance Quantum Communication	Dr. Aeysha Khaliq	Nov 19 2021
10	A Small RNA-Based Innate Immune System Guards the Integrity of Germ Cell Genomes	Professor Dr. Gregory Hannon	Nov 19 2021
11	Biomedical Signal and Image Processing: Challenges and Future Directions	Dr. Farhan Riaz	Nov 19 2021
12	Ultra-Low-Power Systems-on-Chip for Next-Generation Wearables Biomedical Devices	Dr. Wala Saadeh	Nov 19 2021
13	CCEW-7: Redox Regulation via Cellular Thiolstat- A Symphony in Pink	Professor Claus Jacob	Nov 15 2021
14	Unusual Normal Tilings	Prof. Dirk Frettlöh	Nov 15 2021
15	Complex Systems Research – Physics Nobel Prize Lecture 2021	Dr. Silvio Franz	Nov 12 2021
16	Algebra and Topology of Lattices of Subgroups	Prof. Russ Woodroffe	Nov 08 2021
17	The Circulation of Human Biological Water in Socio-hydrologic Systems	Dr. James Wescoat	Nov 10 2021
18	Short Video Documentary Session - PhD-Math Research Seminar	Dr Imran Anwar	Nov 05 2021
19	Problems from Quantum Contextuality and Nonlocality	Dr. Jibran Rashid	Nov 05 2021
20	Towards Robust NLP	Dr. Abdul Rafae Khan	Nov 12 2021

21	Algebra and Topology of Lattices of Subgroups	Prof. Russ Woodroffe	Nov 08 2021
22	Hard-Ball Simulations and the Colliding Dots Animation	Dr. Sarmad Abbasi	Oct 29 2021
23	CCEW-6: Highly Porous Crystalline Materials based on the Rare-Earth Metals	Prof. Kenneth Balkus	Oct 29 2021
24	Seminar on Applying for Graduate Schools	Dr. Shahana Khurshid	Oct 29 2021
25	Moonshine and Arithmetic	Dr. Maryam Khaqan	Nov 01 2021
26	From Diagnostics to Data Science –an Art of Problem Solving	Dr. Bilal Wajid	Oct 29 2021
27	Algebraic Geometry Tools in Systems Biology	Prof. Alicia Dickenstein	Oct 25 2021
28	Artificial Intelligence on the Sphere: Spatial Slepian Transform for Localized Variation Analysis	Dr. Zubair Khalid	Oct 22 2021
29	Quantum Sensing with Spins in Diamond	Dr. Nabeel Aslam	Oct 22 2021
30	Virtual Drug Discovery Symposium 2021 – November 1, 2021		Nov 01 2021
31	Big Roll with a Super Cousin of Neutrinos	Dr. Mansoor Ur Rehman	Oct 15 2021
32	RNA Silencing, Disease Resistance and Non-Mendelian Inheritance	Sir David Baulcombe	Oct 13 2021
33	Combinatorial G-Conjecture for Interval Subdivisions	Imran Anwar & Shaheen Nazir	Oct 18 2021
34	CCEW-5: The History of Refrigerants: What's Next?	Professor Mark B. Shiflett	Oct 12 2021
35	Understanding Quantum Search Algorithm	Dr. Faisal Aslam	Oct 15 2021
36	Tickling Nanoscale Magnets: Nanomagnonics with Artificial Spin Ice	Dr. M. Benjamin Jungfleisch	Oct 08 2021
37	Activating Eggs and Stimulating Reproduction: The Molecular View from Drosophila (and Beyond)	Dr. Mariana Federica Wolfner	Oct 05 2021
38	Transmission Electron Microscopy: a versatile technique for characterizing the nanomaterials	Dr. Dalaver H. Anjum	Oct 01 2021
39	Manipulation of the Positive Temperature Coefficient of Resistivity and Double Schottky Barrier Formed at the Grain Boundary in BiFeO ₃ through Systematic Substitutions	Fiza Mumtaz (PhD student)	Sep 29 2021

40	Variational Principles in Mathematical Physics: From Semibounded to Gapped Operators	Dr. Lukas Schimmer	Oct 4 2021
41	CCEW-4 Disruptive Technologies to Improve the Sustainability of the Polymer Industry	Professor George W Huber	Sep 30 2021
42	A World Without Quantum Computers - John Conway Spirited Seminar Series	Prof. Gil Kalai	Sep 27 2021
43	The CMS Outer Tracker Phase II Upgrade Program and Innovative Silicon Tracking Detectors	Dr. Ashfaq Ahmad	Sep 24 2021
44	Improving Water and Salinity Management using Social-Ecological Systems Research	Dr. Michael Mitchell	Sep 22 2021
45	Journey Towards 6G with Reconfigurable Intelligent Surfaces	Dr. Naveed ul Hassan	Sep 24 2021
46	Multivariate Cryptography and the Complexity of Polynomial Systems Solving	Professor Elisa Gorla	Sep 20 2021
47	Microcavity Polaritons	Dr. Ahsan Zeb	Sep 17 2021
48	Enhanced Stability and Efficiency of Emerging Photovoltaic Devices using Discotic Liquid Crystals	Ms. Qurat ul Ain, PhD Physics Student	Sep 15 2021
49	J. Conway Spirited Seminar Series: From the Somos Sequence and Coxeter-Conway Friezes to Cluster Algebras	Sergei Fomin and Andrei Zelevinsky	Sep 13 2021
50	Exotic features of fourth state of matter in the high entropy region of the terrestrial magnetosphere	Prof Waqas Masood	Sep 10 2021
51	Charging of Spacecraft at Geosynchronous Earth Orbit with Energetic Electrons and Ions	Fareeha Pervaiz	Sep 09 2021
52	Changing Chemical Synthesis with Catalysis: CCEW-3	Prof. John Hartwig	Sep 08 2021
53	Machine Learning in Hydrology – Best of Water Systems Research Seminar Series	Dr. Grey Nearing	Sep 08 2021
54	Fourier meets Riemann: Some Problems on the Interface between Analysis and Number Theory	Professor Emanuel Carneiro	Sep 6 2021
55	Biologically Relevant Metrics of Particles in Indoor and Outdoor Environments	Dr. Shahana Khurshid	Aug 27 2021

56	A Master Equation Incorporating The System-Environment Correlations Present In The Joint Equilibrium State	Mr. Ali Raza Mirza, PhD Physics Student	August 26 2021
57	Dealing with Water Scarcity and Salinity: Adoption of Water Efficient Technologies and Management Practices by California Avocado Growers	Dr. Ariel Dinar	Aug 25 2021
58	Magneto-optic effects in 2D Quantum Materials	Mr. Muzamil Shah, PhD Physics Student	August 20 2021
59	Sociohydrology: "Imagineering" Not Just Engineering Needed to Solve Water Security Challenges	Dr. Murugesu Sivapalan	Aug 11 2021
60	Optical Investigations of Excitons and Phonons in Two-Dimensional Semiconductor Materials	Mr. Shahzad Akhtar Ali	Aug 6 2021
61	Single Cell Detection In An Electrical Impedance Based Microfluidic Biochip: A Computational And Experimental Study	Amina Farooq, PhD Physics Student	Aug 05 2021
62	CCEW-2: Catalysis is a Key Tool for the Sustainable Production of Chemicals, Pharmaceuticals, and Green Energy Technologies	Prof. Matthias Beller	Jul 30 2021
63	Single Photon Quantum Information Experiments in Physlab	Dr Sabieh Anwar	Jul 30 2021
64	Launch of the "Best of Water Systems Research" Seminar Series by WIT SBASSE LUMS	Dr. Andrew Reid Bell	Jul 28 2021
65	Exact Solutions of modified $f(R, T)$ gravity	Mr. Abu Bakr Mehmood, PhD Physics Student	Jul 15 2021
66	Workshop on Mathematical Introduction to Reinforcement Learning	Dr. Andreas Daniel Matt Dr. Jonathan Shock	Jun 09 2021
67	CCEW-1: Soft, Skin-Interfaced Microfluidic Systems for Capture and In Situ Biomarker Analysis of Sweat	Professor John A. Rogers	Jun 30 2021
68	Trapped-Ion Systems for Experimental Quantum Physics	Dr. Kamran Rehan	Jun 18 2021
69	Gene Network and Epigenetic Mechanisms Controlling the Generation of T-Lymphocytes	Professor Dr. Ellen Rothenberg	Jun 24 2021
70	Delivering a Sustainable Energy Transition for Pakistan		Jun 08 2021

71	Quantum Computers: Principles and Applications	Dr. Muhammad Faryad	May 28 2021
72	Epigenetic Genome Control by RNA-Based Mechanisms	Professor Dr. Shiv Grewal	May 26 2021
73	Extension of Wavelets to Topologically Complicated Domains	Prof. Mani Mehra	May 24 2021
74	Galois Correspondence for babies: the case of X6-2	Prof. Rached Mneimné	May 10 2021
75	National Optics and Photonics Engineering Conference by SPIE		May 08 2021
76	Facile Fabrication of Microfluidic Biochip for Applications in Cell Counting	Ms. Amina Farooq, PhD Physics Student	May 03 2021
77	Graphene-based Hybris and Composites and their Applications	Dr. Yarjan Abdul Samad	May 2 2021
78	Biochip with Multi-planar Electrodes Geometry for Differentiation of Non-Spherical Bioparticles in a Microchannel	Ms. Amina Farooq, PhD Physics Student	Apr 23 2021
79	CIMPA School on Algebraic and Combinatorial Methods in Geometry is being by SBASSE LUMS		Apr 23 2021
80	Finding Your Place: Transcription Factors as Sensors and Modifiers of Chromatin	Professor Dr. Dirk Schubeler	Apr 21 2021
81	The Quantum Zeno And Anti-Zeno With Driving Fields: The Weak And Strong Coupling Regime	Ms. Mehwish Majeed, PhD Physics Student	Apr 16 2021
82	Ushering In a New Era Using High Intensity Lasers	Professor Donna Strickland	Apr 09 2021
83	The Role of Spatial Proximity in Genome Regulation	Professor Dr. Wendy Bickmore	Apr 07 2021
84	Cannons at Sparrows: Cutting Polygons, and What That Could Lead To..	Professor Günter M. Ziegler	Apr 05 2021
85	Infinite-Dimensional Geometry with Symmetry	Professor Jan Draisma	Mar 29 2021
86	On Phylogenetics and Polytopes	Professor Emanuele Delucchi	Mar 22 2021
87	Hox Gene Regulation in Embryos and Pseudo-Embryos	Professor Dr. Denis Duboule	Mar 22 2021
88	Monodromy and Monodromy Representation of the Fundamental Group	Professor Norbert A' Campo	Mar 15 2021
89	Mechanisms of the Malignant Progression of Carcinomas	Professor Dr. Robert Weinberg	Mar 11 2021

90	The Second 3-Minute Thesis Competition in Mathematics		Mar 15 2021
91	Traces via Spectral Shift Function	Professor Dr. Muhammad Usman	Mar 08 2021
92	Epigenetic Memory Over Geological Timescales	Prof. Hiten Madhani	Mar 05 2021
93	Nanostructured Carbons Containing FeNi/NiFe ₂ O ₄ Supported Over N-doped Carbon Nanofibers for Oxygen Reduction and Evolution Reactions	Iram Aziz	Mar 03 2021
94	Genome-Wide Mapping of Protein-DNA Interaction Dynamics	Prof. Dr. Steve Henikof	Mar 03 2021
95	A Prelude to Commutative Algebra and its Application	Dr. Imran Anwar	Mar 01 2021
96	Predictive Auto-scaling of Multi-tier Applications Using Performance Varying Cloud Resources	Dr. Waheed Iqbal	Feb 26 2021
97	Shuffles, Operads, and Associahedra	Dr. Peter M. Hines	Feb 22 2021
98	Understanding the Strategies Evolved by a Very Successful Transposable Element	Prof. Dr. Susan Wessler	Feb 24 2021
99	Transcriptomics for personalized medicine	Prof. Greg Gibson	Feb 09 2021
100	Bivalent Polycomb Complexes of Master Switches of Developmental Gene Regulation	Prof. Dr. Mitzi Kuroda	Feb 01 2021
101	Climate Informatics for the Water Energy Food Nexus: A System Dynamics Perspective on Dairy Farm Operations	Muhammad Farooq	Jan 26 2021
102	New Signal Transduction Targets for Cancer Therapy	Professor Dr. Tony Hunter	Jan 20 2021
103	Principles and functional role of 3D genome folding	Prof. Dr. Giacomo Cavalli	Jan 15 2021
104	Properties and Functioning of a Developmental Clock	Dr. Helge Grosshans	Jan 11 2021
105	RNA biology at the crossroads of evolution and disease	Prof. Dr. Jernej Ule	Jan 08 2021

Seminars and Conferences		
Web link	Department	Series
https://sbasse.lums.edu.pk/node/10911	Computer Science	
https://sbasse.lums.edu.pk/node/10881	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10945	Computer Science	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/10825	Computer Science	
https://sbasse.lums.edu.pk/node/10824	Computer Science	
https://sbasse.lums.edu.pk/node/10805	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10800	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10730	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10731	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10656	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/10638	Computer Science	
https://sbasse.lums.edu.pk/node/10637	Electrical Engineering	
https://sbasse.lums.edu.pk/node/10603	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/10499	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10489	Physics	
https://sbasse.lums.edu.pk/node/10490	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10487		WIT
https://sbasse.lums.edu.pk/node/10459	Mathematics	
https://sbasse.lums.edu.pk/node/10435	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10434	Computer Science	

https://sbasse.lums.edu.pk/node/10433	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10412	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10382	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/10380		
https://sbasse.lums.edu.pk/node/10367	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10331	Computer Science	
https://sbasse.lums.edu.pk/node/10319	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10247	Electrical Engineering	
https://sbasse.lums.edu.pk/node/10246	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10231	Chemistry and Chemical Engineering, Biology	
https://sbasse.lums.edu.pk/node/10230	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10213	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/10200	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10167	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/10158	Computer Science	
https://sbasse.lums.edu.pk/node/10155	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10084	Biology	Molecular and Cellular Biology Colloquium Series
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https://sbasse.lums.edu.pk/node/10069	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10059	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/10040	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/10017	Physics	Physics Series
https://sbasse.lums.edu.pk/node/10015		WIT
https://sbasse.lums.edu.pk/node/9997	Electrical Engineering	
https://sbasse.lums.edu.pk/node/9993	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/9986	Physics	Physics Series
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/9970	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/9925	Physics	Physics Series
https://sbasse.lums.edu.pk/node/9947	Physics	
https://sbasse.lums.edu.pk/node/9913	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/9912		WIT
https://sbasse.lums.edu.pk/node/9877	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/9865	Chemistry and Chemical Engineering	

	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/9825		WIT
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/9770		WIT
https://sbasse.lums.edu.pk/node/9759	Physics	Physics Series
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/9726	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/9714	Physics	
https://sbasse.lums.edu.pk/node/9694		WIT
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/9530	Mathematics	
https://sbasse.lums.edu.pk/node/9440	Chemistry and Chemical Engineering	CCEW
https://sbasse.lums.edu.pk/node/9325	Physics	
https://sbasse.lums.edu.pk/node/9323	Biology	Molecular and Cellular Biology Colloquium Series
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	Physics	Pak-ICTP Alumni Society
https://sbasse.lums.edu.pk/node/9081	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/8981	Mathematics	John Conway Spirited Series
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https://sbasse.lums.edu.pk/node/8790		
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/8735		
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/8722		
https://sbasse.lums.edu.pk/node/8670/	Biology	Molecular and Cellular Biology Colloquium Series
	Physics	PhD-Physics Thesis Defense
https://sbasse.lums.edu.pk/node/8439	Physics	Abdus Salam Annual Memorial Lecture
https://sbasse.lums.edu.pk/node/8438	Biology	Molecular and Cellular Biology Colloquium Series
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https://sbasse.lums.edu.pk/node/8370	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/8346	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/8330	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/8290	Mathematics	John Conway Spirited Series
https://sbasse.lums.edu.pk/node/8252	Biology	Molecular and Cellular Biology Colloquium Series

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https://sbasse.lums.edu.pk/node/8117	Chemistry and Chemical Engineering	
https://sbasse.lums.edu.pk/node/8108	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/8076	Mathematics	John Conway Spirited Series
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https://sbasse.lums.edu.pk/node/7967	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/7837	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/7795	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/7764	Electrical Engineering	
https://sbasse.lums.edu.pk/node/7735	Biology	Molecular and Cellular Biology Colloquium Series
https://sbasse.lums.edu.pk/node/7651	Biology	Molecular and Cellular Biology Colloquium Series
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