

2021 APS New England Section Spring Meeting (virtual)

| Time | Log Number | Title | Type | Speaker |
|---------------------------|-------------------|---|-------------|---|
| <i>Friday, April 16</i> | | | | |
| | | Session 1 | | |
| 1:00 PM | | Conference welcome / logistics | | Richard Price |
| 1:05 PM | NES21-2021-000026 | Overview of MIT Lincoln Laboratory | Invited | Justin Brooke |
| 1:41 PM | NES21-2021-000011 | Quantum Engineering of Superconducting Qubits | Invited | William Oliver |
| 2:20 PM | | break | | |
| | | Session 2 - Astrophysics and Atmospheric Physics | | |
| 2:30 PM | | withdrawn | | |
| 2:42 PM | NES21-2021-000012 | A new explanation for breaking the Light Speed Barrier based on the Hubble constant | Contributed | Gh. Saleh, M. J. Faraji, Asghar Dalili |
| 2:54 PM | | withdrawn | | |
| 3:06 PM | NES21-2021-000014 | Cloud-Aerosol Differentiation In Analysis of Laser Radar Atmospheric Side-Scatter Signals | Contributed | Alicja Urbanczyk, Seth Gagnon, Amin Kabir, Nimmi Sharma |
| 3:18 PM | NES21-2021-000017 | DETECTING ATMOSPHERIC STRUCTURE WITH CLIDAR ANALYSES | Contributed | Seth Gagnon, Alicja Urbanczyk, Amin Kabir, Nimmi Sharma |
| | | Session 3 - Poster Session | | |
| 3:30 PM | NES21-2021-000010 | Physical Processes Affecting the Electrical Conductivity of Liquid Crystals | Poster | David Webb, Yuriy Garbovskiy |
| | NES21-2021-000018 | Using Ground-Based Particulate Matter Measurements from a PA-II Dual Laser Air Sensor to Estimate Aerosol Optical Depth | Poster | Marcus Alcantara Silva, Alicja Urbanczyk, Nimmi Sharma |
| | NES21-2021-000029 | Study on the Time-scale Separation in Communities Networks with Consensus Dynamics | Poster | Richard Kyung, Hyungsoon Henry Kim |
| | NES21-2021-000013 | Nobel Prize for Lithium-Ion Battery: Electric Vehicles to Save our Planet | Poster | Paul Carr |
| | | Session 4 | | |
| 4:30 PM | NES21-2021-000022 | Gravitational-Wave Detectors and Applied Quantum Sensing | Invited | Matthew Evans |
| <i>Saturday, April 17</i> | | | | |
| | | Session 1 - Quantum Physics, Particle Physics, Medical Physics, and other | | |
| 10:00 AM | | withdrawn | | |
| 10:12 AM | | withdrawn | | |
| 10:24 AM | | withdrawn | | |
| 10:36 AM | NES21-2021-000007 | Mathematical Models for Living Forms in Medical Physics Submodel 2: Information Coding and Information | Contributed | Christina Pospisil |
| 10:48 AM | NES21-2021-000027 | Point with Precision Quaternion Series Quantum Mechanics | Contributed | Douglas Sweetser |
| 11:00 AM | NES21-2021-000015 | Quantum Mechanics: Electrons, Transistors, and LASERS | Contributed | Paul Carr |
| 11:15 AM | | break | | |
| | | Session 2 - Poster Session | | |
| 11:30 AM | NES21-2021-000024 | Physicochemical Characteristics Polyphenols as Antioxidants | Poster | Shinyoung Park, Richard Kyung |
| | NES21-2021-000025 | Biophysical Mechanics of the Dental Bacteria Biofilm and Polyphenols as Reactive Oxygen Species Reducers | Poster | Youra Oh, Richard Kyung |
| | NES21-2021-000028 | Biophysical Analysis of Nanoparticles Used in the Treatment of Neurodegenerative Diseases | Poster | Juyoung Park, Richard Kyung |
| | NES21-2021-000020 | Physics played a role in the release of Jerry Banks after serving 6 years on death row in Georgia | Poster | Allan Pierce |
| 12:30 PM | | break | | |
| | | Session 3 | | |
| 1:00 PM | NES21-2021-000021 | Symmetry engineering of functionality in ultrathin layered oxides | Invited | Johanna Nordlander |
| 1:36 PM | NES21-2021-000030 | Microwave readout of solid-state spin ensembles | Invited | Danielle Braje |