

# Physics

Session **W**

Room: 107 Downs

|                |                                                                                                                                          |                                                                                                                                       |                                                                                                                                                          |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1:20 - 1:40 PM | <b>Vijay R. Kumar</b><br>University of California,<br>Irvine                                                                             | Growth and transport<br>characterization of thin $\beta$ -FeSe<br>via confined flux synthesis                                         | Linda Ye<br><i>Assistant Professor of Physics</i><br>Gabriel Perko-Engel<br><i>Graduate Student in Physics</i>                                           |
| 1:40 - 2:00 PM | <b>Mingjun Fan</b><br>Caltech<br><i>Shirley and Carl Larson<br/>SURF Fellow</i>                                                          | Uniaxial strain tuning of Hall<br>response in EuAuP                                                                                   | Linda Ye<br><i>Assistant Professor of Physics</i><br>Guoxin Zheng<br><i>Clark B. Millikan Postdoctoral<br/>Scholar Research Associate in<br/>Physics</i> |
| 2:00 - 2:20 PM | <b>Vasilisa K. Malenkiy</b><br>Yale University<br><i>Institute for Quantum<br/>Information and Matter<br/>(IQIM) WAVE Fellow</i>         | Time-resolved domain dynamics<br>of microwave-driven quantum<br>quenches in 3D quantum<br>magnet LiHoF <sub>4</sub>                   | Thomas F. Rosenbaum<br><i>President Emeritus; William A.<br/>Fowler Professor of Physics</i><br>Daniel Silevitch<br><i>Research Professor of Physics</i> |
| 2:20 - 2:40 PM | <b>Umar H. Mohammad</b><br>Caltech<br><i>Dr. Terry Cole SURF Fellow</i>                                                                  | Simulating and tracking domain<br>evolution in the quantum Ising<br>ferromagnet LiHo <sub>0.65</sub> Y <sub>0.35</sub> F <sub>4</sub> | Thomas F. Rosenbaum<br><i>President Emeritus; William A.<br/>Fowler Professor of Physics</i><br>Daniel Silevitch<br><i>Research Professor of Physics</i> |
| 2:40 - 2:50 PM | <b>BREAK</b>                                                                                                                             |                                                                                                                                       |                                                                                                                                                          |
| 2:50 - 3:10 PM | <b>Alexander E. Oliver</b><br>University of Cambridge<br><i>Caltech-Cambridge Exchange</i>                                               | Phase space dynamics and<br>systematic error analysis at the<br>$\tau$ SPECT experiment                                               | Brad W. Filippone<br><i>Francis L. Moseley Professor of<br/>Physics</i><br>Xiaozhe Zhu<br><i>Graduate Student in Physics</i>                             |
| 3:10 - 3:30 PM | <b>Chandrasekhar<br/>Kappagantula</b><br>California Polytechnic State<br>University, San Luis Obispo<br><i>Carl F. Braun WAVE Fellow</i> | Removing AGN contamination<br>from millimeter-wave datasets<br>to refine multiprobe triaxial<br>analysis of galaxy clusters           | Jack Sayers<br><i>Research Professor of Physics</i><br>Adriana Gavidia<br><i>Graduate Student in Physics</i>                                             |
| 3:30 - 3:50 PM | <b>Chi Suen Leung</b><br>The Chinese University of<br>Hong Kong<br><i>VURP Fellow</i>                                                    | Covariance computation of CMB<br>lensing power spectrum                                                                               | Wai Ling Wu<br><i>Assistant Professor of Physics</i><br>Nicolas C. Ferree<br><i>Graduate Student Physics</i>                                             |
| 3:50 - 4:10 PM | <b>Patrick P. Chen</b><br>University of Cambridge                                                                                        | Initial data dependence of direct<br>waves in binary black hole<br>mergers                                                            | Yanbei Chen<br><i>Professor of Physics</i><br>Andrew Laeuger<br><i>Graduate Student in Physics</i>                                                       |