

SIST/GEM Posters, Final Talks, and Papers Summer 2022

Monday, 8 August 2022

SIST/GEM Final Talks: First Group Presents (09:00 - 13:00)

-Conveners: Mallory Bowman; Judy Nunez; Carrie McGivern; Mike Geelhoed; Arden Warner

| time | [id] title | presenter |
|-------|---|----------------------|
| 09:02 | [28] Mechanical Design of the Oscura Vessel | AKOUEDJINOUE, Kodjo |
| 09:18 | [29] Transverse Beam Echoes in the IOTA | ALEXIS, Minani |
| 09:34 | [30] Anomaly detection in the LINAC | WASHINGTON, Davion |
| 09:50 | [31] Low Energy Neutron Reconstruction - LDMX | UPADHYAYA, Param |
| 10:06 | [32] Energy Reconstruction of Low Energy Events in LArTPC | NEELY-BROWN, LeRayah |
| 10:22 | [33] Directional Dark Matter Detection With Scintillating Crystals | BROWN, Anthony |
| 10:38 | [34] DUNE VDTPC Raw Signal Analysis using Machine Learning | CLARK, Malachi |
| 10:54 | [35] Understanding NuMI Beam Position with a ML Technique | COX, Carrie |
| 11:10 | [36] 650 MHz Coupler Test Stand Redesign | BAHNKE, Brayden |
| 11:26 | [37] Measuring the Radial Field of Muon g-2 | RODRIGUEZ, Fatima |
| 11:42 | [38] Cluster Cosmology | ABDELAZIZ, Ebtihal |
| 11:58 | [39] Booster Cavity Tuner Optimization | HAZELTON, Edward |
| 12:14 | [40] Gluon Representation for Lattice QCD Computer Simulations | JANNI, Anna |
| 12:30 | [41] DUNE workflows on the EAF for analyzing data from ProtoDUNE-II | AYLAY, Lewhat |

Tuesday, 9 August 2022

SIST/GEM Final Talks: Second Group Presents (09:00 - 13:17)

-Conveners: Mallory Bowman; Carrie McGivern; Mike Geelhoed; Arden Warner; Judy Nunez

| time | [id] title | presenter |
|-------|--|----------------------|
| 09:01 | [42] Gravity Offload Tool for PIP-II | HERBST, Lilly |
| 09:17 | [43] SPT-SLIM Electronics Rack | KRISHNAN, Achintya |
| 09:33 | [44] Comparison of Electron and Neutrino Modeling | LI, Lily |
| 09:49 | [45] High Pressure Rinsing of Accelerator Cavities | BROWN, Trey |
| 10:05 | [46] First Look at Cosmic Ray Tagging (CRT) track reconstruction at ICARUS | MAJETHIA, Krish |
| 10:21 | [47] LAPPD Performance Analysis for the ANNIE Experiment | MORRISSETTE, James |
| 10:37 | [48] Temperature Prediction at FAST using LSTMs | PEIRO, Silvia |
| 10:53 | [49] Optical & RF Component Testing Platform for Quantum Transduction Technology | DELGADO, Julian |
| 11:09 | [50] Building Tiny LArTPC to Measure Low Energy Events | RAOFA, Raisa Tasnim |
| 11:25 | [51] Using variational methods & hyperbolic lattices to find the ground state of gapless systems | SAJID, Muhammad Omer |
| 11:41 | [52] A Simulation of Neutrino Interactions in Detectors | ANTU, Santanu |
| 11:57 | [53] Developing Instrumentation for Magnetic Field Measurement | HAYMAN, Japheth |
| 12:13 | [54] Searching for Axion/Dark Photon Conversion Signals | SMITH, Keston |
| 12:29 | [55] Quantum Sensor for detection of Dark Matter | SUBEDI, Divas |
| 12:45 | [56] Multi-Threaded Graph Processing Framework for Dune | TERWILLIGER, Clifton |
| 13:01 | [57] Cleanroom Automation of SRF Cavity String Assembly | LA ROTTA, Pedro |