Session Program

18 February 2023



UH Physics Research Day - 2023

Parallel Session 1

University of Houston - Main Campus 101 Farish Hall

Friday 17 February

13:00 Parallel Session 1 Session | Location: University of Houston - Main Campus, 101 Farish Hall | Convener: Greg Morrison 13:00-13:15 Entaglement entropy in p-p collisions Speaker Alek Hutson 13:15-13:30 Contribution of Hadron Families to the QCD Equation of State Speaker Alejandro Florez 13:30-13:45 QCD equation of state at finite density with a critical point from an alternative expansion scheme Speaker Micheal Kahangirwe 13:45-14:00 Using Xenon-Doped Liquid Argon Scintillation for Full-Body, Time of Flight **Positron Emission Tomography** Speaker Alejandro Ramirez 14:00-14:15 Elliptic flow measurement in Xe-Xe collisions at \sqrt{S_{NN}}=\$5.44 Tev\$ Speaker Iris Likmeta 14:15-14:30 Lightning Protection of the Artemis Spacecraft Speaker Nathan Roberts 14:30-14:45 Integrating Darkside-20K into the SuperNova Early Warning System and Implementing Recurrent Neural Networks for Supernova Neutrino Detection Speaker Sebastian Torres-Lara 14:45-15:00 LIMITED FREQUENCY BANDWIDTH ON THE INVERSE SCATTERING SERIES AND THE **EFFECTS ON SEISMIC PROCESSING GOALS** Speaker Ana Carolina Gonzalez Romero 15:30