

Session Program

Sep 23 - 27, 2019

**International Workshop on New Physics at
the Low Energy Scales (NEPLES-2019)**

Talk Session

Korea Institute for advanced Study(KIAS), Auditorium(1F)
85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea

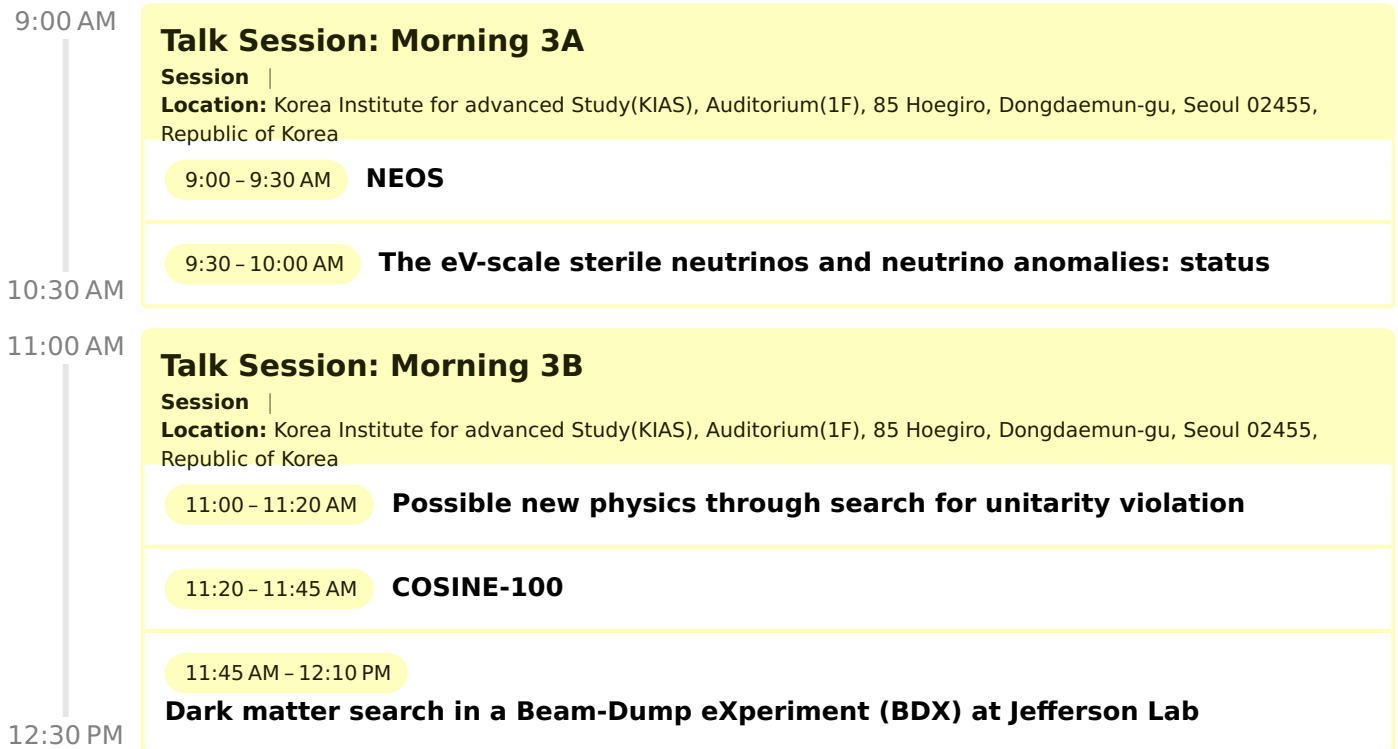
Mon, September 23

9:15 AM	<p>Talk Session: Morning 1A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>9:15 - 9:45 AM QCD axion and more: Theories</p> <p>9:45 - 10:15 AM ALP dark matter</p>
10:30 AM	
11:00 AM	<p>Talk Session: Morning 1B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>11:00 - 11:25 AM Latest results from ABRA-10 and new ideas related to the axion DM detection</p> <p>11:25 - 11:50 AM Production and detection of an axion dark matter echo</p> <p>11:50 AM - 12:10 PM Dark Axion Portal</p>
12:30 PM	
2:00 PM	<p>Talk Session: Afternoon 1A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>2:00 - 2:30 PM The FASER experiment</p> <p>2:30 - 3:00 PM The numerous and Varied impacts of sterile neutrinos on Cosmology</p>
3:30 PM	
4:00 PM	<p>Talk Session: Afternoon 1B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>4:00 - 4:30 PM On determination of the neutrino oscillation parameters and status of Hyper-K-K</p> <p>4:30 - 5:00 PM The 5 MeV bump</p>
5:30 PM	

Tue, September 24

9:00 AM	<p>Talk Session: Morning 2A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>9:00 - 9:30 AM Axions and Swampland Conjectures</p> <p>9:30 - 10:00 AM Axion and Inflation</p>
10:30 AM	
11:00 AM	<p>Talk Session: Morning 2B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>11:00 - 11:30 AM Searching for Dark Matter and Dark energy at Cosmic Dawn</p> <p>11:30 - 11:50 AM Axion-Photon Conversion and Effects on 21cm Line</p> <p>11:50 AM - 12:10 PM Quantum effects in axion dark matter</p>
12:30 PM	
2:00 PM	<p>Talk Session: Afternoon 2A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>2:00 - 2:20 PM Scalar dark matter interacting through an extra U(1) gauge interaction</p> <p>2:20 - 2:40 PM Probing light dark matter-induced fifth force with neutron-star inspirals and gravitational waves</p> <p>2:40 - 3:00 PM Search for muon-philic new light gauge boson at Belle II</p>
3:30 PM	
4:00 PM	<p>Talk Session: Afternoon 2B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>4:00 - 4:30 PM Parallel/Mirror Dark World</p> <p>4:30 - 5:00 PM Latest results from COHERENT</p>
5:30 PM	

Wed, September 25



Thu, September 26

9:00 AM	<p>Talk Session: Morning 4A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>9:00 – 9:30 AM MiniBooNE results and bounds on their non-oscillations explanations</p> <p>9:30 – 10:00 AM Light dark sectors and neutrino masses generation</p>
10:30 AM	
11:00 AM	<p>Talk Session: Morning 4B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>11:00 – 11:30 AM Sterile neutrinos: Hiding from the Universe</p> <p>11:30 – 11:50 AM Probing Fuzzy DM in Neutrino Experiments</p> <p>11:50 AM – 12:10 PM TeV scale leptogenesis via dark sector scattering</p>
12:30 PM	
2:00 PM	<p>Talk Session: Afternoon 4A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>2:00 – 2:30 PM Physics and properties of relic neutrinos</p> <p>2:30 – 3:00 PM The Ptolemy project: towards relic neutrino detection</p>
3:30 PM	
4:00 PM	<p>Talk Session: Afternoon 4B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>4:00 – 4:30 PM Relic neutrino detection through angular correlations in inverse beta decay</p> <p>4:30 – 5:00 PM Coherency and incoherency in neutrino-nucleus elastic and inelastic scattering</p> <p>5:00 – 5:20 PM Radio telescope probes on the light scalar fields</p>
5:30 PM	

Fri, September 27

9:00 AM	<p>Talk Session: Morning 5A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>9:00 – 9:25 AM Neutrino matter effect and non-standard interactions</p> <p>9:25 – 9:50 AM The Price of Tiny Kinetic Mixing</p> <p>9:50 – 10:10 AM Inelastic Boosted Dark Matter at Low Energy Scale Experiments</p>
10:30 AM	
11:00 AM	<p>Talk Session: Morning 5B</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>11:00 – 11:30 AM Manifestations of physics beyond standard model in atomic and nuclear phenomena</p> <p>11:30 AM – 12:00 PM The MSW potentials induced by ultralight mediators</p>
12:30 PM	
2:00 PM	<p>Talk Session: Afternoon 5A</p> <p>Session Location: Korea Institute for advanced Study(KIAS), Auditorium(1F), 85 Hoegiro, Dongdaemun-gu, Seoul 02455, Republic of Korea</p> <p>2:00 – 2:30 PM AMoRE</p> <p>2:30 – 3:00 PM Searches for light dark sector with high-energy astrophysical neutrinos</p> <p>3:00 – 3:30 PM Probing light dark matter</p>
4:00 PM	