

新学術領域研究「ニュートリノフロンティア」研究会 2014

2014年12月21日(日)–23日(火) 富士 Calm (山梨県富士吉田市新屋 1400)

12月21日(日)

Session 1		Chair: M. Yokoyama (U. Tokyo)		
13:30	R. Kitano	KEK/IPNS	Opening remarks	10'
13:40	M. Friend	KEK/IPNS	Recent results from the T2K experiment	30'
14:10	M. Koike	Utsunomiya U.	Matter effect in long baseline neutrino oscillation	25'
14:35	H. Kuboki	KEK/Acc	Beam monitors in J-PARC	25'
15:00	M. Ishitsuka	Tokyo Tech.	Double Chooz physics results and prospects	25'
15:25-15:45		Coffee break		
Session 2		Chair: F. Suekane (Tohoku U.)		
15:45	T. Bezerra	Tohoku U.	Double Chooz near detector commissioning	25'
16:10	S. Mine	UCI	Atmospheric neutrino and proton decay studies in Super-Kamiokande	30'
16:35	A. Suzuki	Kobe U.	Hyper-K physics potentials and R&D	30'
17:05	M. Relich	Chiba U.	The online search for extremely-high energy cosmic neutrinos with IceCube for multi-messenger astronomy	20'
17:30	T. Ota	Saitama U.	Mind the gap on Icecube: Cosmic neutrino spectrum and muon anomalous magnetic moment	25'
19:00-21:00		Banquet @ Fuji Calm		
12月22日(月)				
Session 3		Chair: A. Ichikawa (Kyoto U.)		
9:00	T. Kuwabara	Chiba U.	The atmospheric neutrino measurements by IceCube	20'
9:20	R. Gaior	Chiba U.	The end-to-end calibration for ARA experiment	20'
9:40	A. Ishihara	Chiba U.	Detector R&D for the Next Generation IceCube - IceCube-Gen2	20'
10:00	S. Nagataki	RIKEN	Theoretical Study for Unveiling the Origins of VHE-Neutrinos in the Near Future	20'
10:20-10:40		Coffee break		
Session 4		Chair: T. Maruyama (KEK/IPNS)		
10:40	M. Nakamura	Nagoya U.	Short report on OPERA	5'
10:45	S. Aoki	Kobe U.	GRAINE project: First massive production and use of "High sensitive emulsion gel film"	20'
11:05	T. Fukuda	Toho U.	Neutrino experiments with nuclear emulsion at J-PARC	20'
11:25	S. Kumano	KEK	Neutrino-nucleus interactions in the DIS region	25'
11:50	S. Nakamura	Osaka U.	Neutrino interactions in the resonance region	20'
12:10-14:30		Group photo / Lunch		
Session 5		Chair: O. Sato (Nagoya U.)		
14:30	S. Tsuno	KEK	Tera-scale particle physics at LHC	45'
15:15	N. Kanda	Osaka City U.	New Developments in Astrophysics Through Multi-Messenger Observations of Gravitational Wave Sources	45'
16:00	S. Hasegawa	JAEA	Status of sterile Neutrino Search at J-PARC MLF	30'
16:30-16:50		Coffee break		
Session 6		Chair: K. Yamamoto (Osaka City U.)		
16:50	K. Kohri	KEK	Determination of neutrino mass hierarchy from cosmology	20'
17:10	O. Tajima	KEK	Angle calibration system for CMB telescope - quest for neutrino hierarchy using CMB polarization	20'
17:30	M. Komatsu	Nagoya U.	Tau Neutrino physics in SHiP at CERN	15'
17:45	K. Takemasa	U. Tsukuba	Development of STJ detector for cosmic background neutrino decay search	30'
18:15	E. Iwai	KEK	Status of LArIAT (beam test experiment)	25'
18:40	O. Sato	Nagoya U.	An experimental proposal "The first observation of neutrino nucleus coherent scattering"	15'
12月23日(火)				
Session 7		Chair: T. Yoshida (Fukui U.)		
9:00	K. Sakashita	KEK	Status of LAr TPC R&D (1)	20'
9:20	M. Tanaka	Osaka U.	Neutrino Spectroscopy with Atoms and Molecules	35'
9:55	S. Yoshida	Osaka U.	Development of new measurement technique of ^{48}Ca β decay background for the study of ^{48}Ca $0\nu\beta\beta$ decay	20'
10:15	H. Furuta	Tohoku U.	Status of liquid scintillator base reactor monitor	25'
10:40-11:00		Group Photo / Coffee break		
Session 8		Chair: S. Ban/S. Yanagita (Kyoto U.)		
11:00	T. Hiraki	Kyoto U.	Recent beam study using T2K muon monitor	20' *
11:20	Y. Suda	U. Tokyo	New event reconstruction algorithm of water Cherenkov detectors	15' *
11:35	T. Okudaira	U. Tsukuba	R&D status of the SOI-STJ detector	15' *
11:50	R. Senzaki	U. Tsukuba	R&D status of the cold preamplifier	15' *
12:05	R. Hirose	U. Fukui	Far-Infrared source R&D	15' *
12:20	R. Sasaki	Iwate U.	Status of LAr TPC R&D (2)	15' *
12:35	T. Nakaya	Kyoto U.	Closing statement	

(*) Talk with the asterisk mark will be given in Japanese.