

Program

December 9

9:00– 9:30	Registration	
9:30– 9:40	Welcome and the goal of this meeting	T. Kajita (ICRR)
1. Atmospheric neutrino oscillation		
9:40–10:30	Sub-dominant oscillation effects in atmospheric neutrinos	M. C. Gonzalez-Garcia (CERN/SUNY/Valencia)
10:30–11:05	Three-flavor subleading effects and systematic uncertainties in Super-Kamiokande	E. Lisi (Bari)
<i>coffee</i>		
11:30–11:55	Constraint on theta13 from the atmospheric neutrino data from Super-Kamiokande	K. Okumura (ICRR)
11:55–12:35	Effect of the solar terms to the theta23 determination in Super-Kamiokande and important systematic error for future improvements	S. Nakayama (ICRR)
<i>lunch</i>		
14:00–14:30	Future possibilities	M. Shiozawa (ICRR)
2. Input data to the neutrino flux calculation		
14:30–15:00	Primary cosmic ray fluxes at various solar activities	Y. Shikaze (JAERI)
15:00–15:30	Atmospheric muon fluxes at various locations	T. Sanuki (Tokyo)
15:30–16:00	Hadron production experiments	G. Barr (Oxford)
<i>coffee</i>		
3. Flux calculation: method and technique		
16:30–17:00	Flux calculation in HKKM	M. Honda (ICRR)
17:00–17:30	Flux calculation in Bartol	G. Barr (Oxford)
19:00–21:00	<i>Banquet</i>	

December 10

4. Flux calculation results, and the estimated systematic errors

- | | | |
|---------------|--|--|
| 9:30–10:05 | Flux calculation results and the systematic errors in HKKM | M. Honda (ICRR) |
| 10:05–10:40 | Flux calculation results and the systematic errors in Bartol | G. Barr (Oxford) |
| <i>coffee</i> | | |
| 11:10–11:40 | Discussion on flux calculation improvements | Discussion leader:
P. Lipari (Rome) |

5. Neutrino interaction

- | | | |
|---------------|---|-----------------------|
| 13:30–14:00 | NEUT: neutrino interaction code used in Super-Kamiokande and K2K | J. Kameda (ICRR) |
| 14:00–14:30 | Neutrino interaction measurements in K2K (Scibar) | M. Hasegawa (Kyoto) |
| 14:30–15:00 | Neutrino interaction measurements in K2K (1kton water Cherenkov) | J. Kameda (ICRR) |
| <i>coffee</i> | | |
| 15:30–16:15 | Inclusive quasi-elastic neutrino reactions | J. Nieves (Granada) |
| 16:15–16:45 | Comparison of quasi-elastic cross sections using spectral functions with (e, e') data from 0.5 to 1.5 GeV | H. Nakamura (Waseda) |
| 16:45–17:15 | How to test QE neutrino-nucleus interaction models using the data of QE lepton-nuclear interactions | A. V. Butkevich (INR) |

December 11

- | | | |
|--------------|---|---|
| 9:30–10:00 | Delta production | J-Y. Yu (Dortmund) |
| 10:00–10:30 | Issues in the region of quasi-free delta production | R. Seki (Caltech) |
| 10:30–11:00 | Discussion on cross section | Discussion leader:
R. Seki (Caltech) |
| <i>lunch</i> | | |
| 13:00–14:00 | Summary | P. Lipari (Rome) |