

**Agenda of NUINT'02 Workshop
December 12-15, 2002
University of California, Irvine**



Registration

(Thursday 8:00 – 8:30)

Session 1: Motivation

(Thursday 8:30 – 12:00)

8:30 – 8:35	Dean W. Parker (Irvine)	Welcome (5 min)
8:40 – 9:10	P. Lipari (Rome)	Charge to NUINT'02 (25+5 min)
9:10 – 9:40	K. McFarland (Rochester)	Physics interest in low-energy neutrino interactions (25+5 min)
9:40 – 10:10	C. Walter (Boston)	Systematic uncertainties in Δm^2 from neutrino physics, using kinematic E_ν reconstruction (25+5 min)
10:10 – 10:30	Coffee Break	
10:30 – 11:00	D. Harris (FNAL)	Systematic uncertainties in Δm^2 from neutrino physics, using calorimetric E_ν reconstruction (25+5 min)
11:00 – 11:30	S. Mine (Irvine)	Neutrino physics and proton decay backgrounds (25+5 min)
11:30 – 12:00	C. Horowitz (Indiana)	Neutrino interactions in supernovae and measurements in the lab (25+5 min)

Session 2: Data from past and present experiments

(Thursday 13:30 – 17:00)

13:30 – 14:00	H. Tanaka (Princeton)	Status of MiniBooNE (25+5 min)
14:00 – 14:30	Y. Itow (ICRR)	K2K spectrum and π^0 results (25+5 min)
14:30 – 15:00	T. Ishida (KEK)	K2K fine-grained detector results (25+5 min)
15:00 – 15:30	Coffee Break	
15:30 – 16:00	D. Naples (Pittsburgh)	Review of total cross-section measurements (25+5 min)
16:00 – 16:30	K. Furuno (Tohoku)	Single pion production in BNL 7-foot bubble chamber data (25+5 min)
16:30 – 17:00	E. Hawker (Cincinnati)	Single pion production in low-energy ν -Carbon interactions (25+5 min)

Reception (Thursday 17:15 – 18:30, Fred Reines Hall Atrium)

Session 3: Neutrino-nucleon interactions

(Friday 8:30 – 12:00)

8:30 – 9:00	K. McFarland (Rochester)	Conventional explanations for the NuTeV anomaly (25+5 min)
9:00 – 9:30	H. Budd (Rochester)	Overview of neutron and proton form factors (25+5 min)
9:30 – 10:00	A. Bodek (Rochester)	Modeling electron, neutrino and photo-production cross-sections (25+5 min)
10:00 – 10:30	Coffee Break	
10:30 – 11:00	S. Kumano (Saga)	Nuclear parton distribution functions (25+5 min)
11:00 – 11:30	S. Kretzer (Michigan State)	Lepton mass effects in charged-current scattering (25+5 min)
11:30 – 12:00	S. Jeschonnek (Ohio State)	Modeling quark-hadron duality (25+5 min)

Session 4: Neutrino-nucleus interactions

(Friday 13:30 – 17:00)

13:30 – 14:05	R. Ent (JLAB)	Overview of nuclear effects in electron scattering (30+5 min)
14:05 – 14:30	D. Dutta (Duke)	Hadron propagation in the nuclear medium (20+5 min)
14:30 – 14:55	M. Strikman (Penn State)	The EMC effect and issues for the axial vector current (20+5 min)
14:55 – 15:20	W. Brooks (JLAB)	Hadron and multi-particle production measurements from JLAB Hall B (20+5 min)
15:20 – 15:40	Coffee Break	
15:40 – 16:05	O. Benhar (Rome)	Nuclear response beyond the Fermi gas model (20+5 min)
16:05 – 16:30	J. Sobczyk (Wroclaw)	Modeling nuclear effects in neutrino-nucleus interactions (20+5 min)
16:30 – 16:55	U. Kose (METU-Ankara)	Multiplicity measurement of nuclear fragments in neutrino interactions with CHORUS (20+5 min)

**Informal Meeting on Scattering Experiments with the NUMI Beam
(Friday 19:00 – 22:00, Breton West Room, Countryside Inn)**

Session 5: Final-state interactions

(Saturday 8:30 – 12:00)

8:30 – 9:00	S. Wood (JLAB)	Similarities and differences between electron and neutrino scattering (25+5 min)
9:00 – 9:30	D. Gaskell (JLAB)	Hadron attenuation and results from HERMES (25+5 min)
9:30 – 10:00	S.K. Singh (Algarth)	Delta production calculations with nuclear effects (25+5 min)
10:00 – 10:30	Coffee Break	
10:30 – 11:00	M. Sakuda (KEK)	Nuclear effects in quasi-elastic and delta production (25+5 min)
11:00 – 11:30	I. Schienbein (DESY)	Pion absorption and rescattering (25+5 min)
11:30 – 12:00	E.A. Paschos (Dortmund)	Coherent scattering (25+5 min)

Session 6: Monte Carlo generators and software

(Saturday 13:30 – 17:00)

13:30 – 14:00	G. Zeller (Columbia)	Comparisons of real and simulated data (25+5 min)
14:00 – 14:20	D. Casper (Irvine)	Comparisons of simulated data samples (15+5 min)
14:20 – 14:40	H. Gallagher (Tufts)	Nuclear response functions in simulation of quasi-elastic scattering (15 + 5 min)
14:40 – 15:10	H. Nakamura (Waseda)	Comparison of Fermi gas calculations (25+5 min)
15:10 – 15:40	Coffee Break	
15:40 – 16:15	P. Sala (ETH-Zurich)	The FLUKA nuclear cascade model (30+5 min)
16:15 – 17:00	S. Mohanty (Lund)	Treatment of low-mass hadronic states in the Lund model (40+5 min)

Conference Dinner (Saturday 19:30, Tutto Mare)

(Buses leave hotel at 19:00)

Session 7: Future directions
(Sunday 8:30-11:30)

8:30 – 9:00	E. Ma (Riverside)	Different G_F and $\sin^2 \theta_W$ for different processes (25+5 min)
9:00 – 9:30	Y. Hayato (KEK)	K2K near detector upgrade and prospects for neutrino-nucleus interaction measurements (25+5 min)
9:30 – 10:00	R. Tayloe (Indiana)	A near experiment on the Fermilab booster neutrino beam (25+5 min)
10:00 – 10:30	J. Morfin (FNAL)	A high-statistics neutrino scattering experiment in the NUMI beam (25+5 min)
10:30 – 11:00	S. Manly (Rochester)	Possibilities for an off-axis near detector at NUMI (25+5 min)
11:00 – 11:30	K. McDonald (Princeton)	Large and small (far and near) liquid argon detectors for accelerator neutrino beams (25+5 min)
11:30 – 11:45		Coffee Break

Session 8: Summary and Discussion
(Sunday 11:45-13:00)

11:45 – 12:30	A. Bodek (Rochester)	Conference Summary (45 min)
12:30 – 13:00	All	Final Discussion