



Program: UNO Collaboration Meeting and Unification Day Workshop

**Meeting Location: Castle Peak Room 1-2
Keystone Conference Center
Keystone, Colorado**

Thursday, October 14, 2004

10:00-10:30	Registration	Chair: T. Mann
10:30-10:40	Welcome /Introduction/Meeting Logistics	C. K. Jung
10:40-11:00	UNO Update	C. K. Jung
11:00-11:30	NSF DUSEL Status & HUSEP Update	B. Wilson
11:30-12:00	Henderson Core Drilling Project and Geology	deWolfe/Kuchta/Petersen
12:00-12:30	UNO/DUSEL at Henderson Preliminary Layout	M. Kuchta
12:30-14:00	Lunch Advisory Committee Meeting	
14:00-14:25	The SALTA Schools Henderson Mine Project	Chair: J. Wilkes
14:25-14:40	Student Views of the SALTA Project	D. Claes
14:40-15:10	Status of a Megaton Project at Fréjus	SALTA Students
15:10-15:30	Coffee Break	L. Mosca
15:30-16:00	Status of Hyper-Kamiokande	Chair: B. Wilson
16:00-16:20	Status of the UNO Software	K. Nakamura
16:20-16:40	Update on BNL VLBL study	C. McGrew
16:40-17:00	Update on $\bar{\nu}_e$ appearance background study	Brett Viren
17:00-17:30	Status report on ReFeRence Photosensor Development	Chiaki Yanagisawa
		Dan Ferenc

Friday, October 15, 2004

Unification Day Workshop

Chair: [B. Marciano](#)

08:30-09:00	Experimental Status of the Proton Decay Searches	C. K. Jung
09:00-09:30	Proton Decay In String/M-Theory Unification	E. Witten
09:30-10:00	Unification in String Theory	J. Maldacena
10:00-10:30	Splitting SUSY	S. Dimopoulos
10:30-10:45	Coffee Break	

Chair: [K. Babu](#)

10:45-11:15	Three family models from the Heterotic string	S. Raby
11:15-11:45	No GUTs Needed: Planck Scale Nucleon Decay	D. Larson
11:45-12:15	Gauge Boson Mediated Proton Decay Rates	B. Marciano

12:15-13:30 Lunch

Chair: [E. Witten](#)

13:30-14:00	Proton Decay: From (the) MSSM to SUSY SO(10)	Q. Shafi
14:00-14:30	Predictive minimal SO(10) for neutrinos and proton decay	R. Mohapatra
14:30-15:00	The Flavor Puzzle and its implications for Proton Decay	K. Babu
15:00-15:30	Proton Decay In Minimal Susy and Ordinary GUTs	G. Senjanovic

15:30-15:45 Coffee Break

Chair: [C.K. Jung](#)

15:45-16:15	Proton Decay: A Compelling Feature Within a Unified Picture	J. Pati
16:15-16:45	Unification and Proton Decay in Higher Dimensions	K. Dienes
16:45-17:15	Unified Theories in Higher Dimensions and Proton Decay	Y. Nomura
17:15-17:45	Raising Higgs boson mass and its implication to proton decay	I. Gogoladze
17:45-18:30	Conclusion/Discussion	E. Witten/C.K. Jung

19:00-22:00 Workshop Dinner at the Champeaux French restaurant in the Keystone Lodge Hotel

Saturday, October 16, 2004

Tour of the Henderson Mine

Note: Please wear clothes that you don't mind getting dirty, like blue jeans and a sweatshirts. The sweatshirt is good for warmth. Also please wear hiking boots or sneakers.

07:45 Depart from Keystone in front of the Keystone Lodge Lobby
08:45 Gather at the Henderson mine office
09:00-11:30 Tour of the Henderson Mine
11:30-12:30 Lunch and Discussion
12:00 Shuttle to DIA
12:30 Leave Mine to Keystone

UNO as a Far Detector for VLBL Oscillation Experiments Working Group Session

09:00-12:00 Working Group Meeting McGrew/Toki

12:00-13:30 Lunch

[Chair: K. Nakamura](#)

13:30-14:00 Update on Proton decay searches at Super-Kamiokande
and study on possible improvements

K. Kobayashi

14:00-14:30 Atmospheric neutrino experiments with Mega-ton
water Cherenkov detector

K. Okumura

UNO R&D Proposal Session

14:30-15:00 Excavation Method R&D

M. Kuchta/L. Petersen

15:00-15:30 Water Containment/Cavity Treatment R&D

D. Warner

15:30-15:50 Coffee Break

[Chair: C.K. Jung](#)

15:50-16:20 PMT Mounting Scheme R&D

J. Wilkes

16:20-16:50 Software R&D

McGrew/Toki

16:50-17:10 Planning, Costing and Outreach

C.K. Jung

17:10-17:40 Discussion (Next Actions)

Next meetings:

1) Video Conference

2) NNN05/UNO Collaboration Meeting:
France, April 2004

17:40 Meeting Adjourns