

CHANG KEE JUNG

Professor of Physics

Address:

Department of Physics and Astronomy
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Education: Graduate

Ph.D. in Physics, specializing in Experimental High Energy Physics
Indiana University, Bloomington, Indiana, May 1986
Thesis Title: *Measurement of The F^+ Meson Lifetime*
Thesis Advisor: Prof. Harold O. Ogren

Undergraduate

Bachelor of Science in Physics
Seoul National University, Seoul, Korea, 1979

Honors:

Awards

Academy of Teacher-Scholar Award, Stony Brook University, 2003
American Physical Society Fellow, 2002
Asahi Prize (shared, Super-Kamiokande Collaboration), 1998
U.S. Dept. of Energy, Outstanding Junior Investigator Award, 1994
Outstanding Research Assistant Award, Indiana University, 1986
Outstanding Associate Instructor Award, Indiana University, 1983

Fellowships and Visiting Positions

Spanish Ministry of Science and Education Visiting Professor Fellowship, Universitat Autònoma de Barcelona, Spain, 2005
Visiting Professor, KEK, Japan, 1998
Japan Society for Promotion of Science (JSPS) Fellow, 1998
Center of Excellence (COE) Fellow, University of Tokyo, 1997

Employment History:

2000-present	<u>Professor</u> , Department of Physics and Astronomy, Stony Brook University, Stony Brook, New York
1996-2000	<u>Associate Professor</u> , Department of Physics and Astronomy, Stony Brook University, Stony Brook, New York
1990-1996	<u>Assistant Professor</u> , Department of Physics, Stony Brook University, Stony Brook, New York
1986-1990	<u>Postdoctoral Research Physicist</u> , Stanford Linear Accelerator Center, Stanford University, Stanford, California
1982-1986	<u>Graduate Research Assistant</u> , Department of Physics and Astronomy, Indiana University, Bloomington, Indiana
1980-1982	<u>Graduate Teaching Assistant</u> , Department of Physics and Astronomy, Indiana University, Bloomington, Indiana

Major Long-Standing Service Positions in Research:

- 2007-present Member, Science Committee, Canfranc Underground Laboratory, Spain
- 2004-present Spokesperson, Henderson Underground Science and Engineering Project (HUSEP) Collaboration
- 2007-present Elected Member, Executive Committee, T2K Collaboration
- 2004-present Spokesperson, T2K US B280 Collaboration
- 2003-2007 Chair, Interim/International Board of Representatives, T2K Collaboration
- 2000-present Spokesperson, UNO Collaboration
- 1999-present Founder and Chair of the Steering Committee, (Next generation Nucleon decay and Neutrino detector (NNN) Workshop/Conference series
- 1996-present Co-Spokesperson, K2K US Collaboration

PUBLICATIONS: Refereed Journal Articles

(The names appear on the papers as: Chang Kee Jung, C.K. Jung and C. Jung.)

200 Measurement of Single Charged Pion Production in the Charged-current Interactions of Neutrinos in a 1.3 GeV Wide Band Beam

A. Rodriguez and L. Whitehead *et al.* [K2K Collaboration]
accepted for publication in Phys. Rev. D arXiv:0805.0186 [hep-ex]

199 Solar neutrino measurements in Super-Kamiokande-II

J. P. Cravens *et al.* [Super-Kamiokande Collaboration]
arXiv:0803.4312 [hep-ex]

198 Experimental study of the atmospheric neutrino backgrounds for proton decay to positron and neutral pion searches in water Cherenkov detectors

S. Mine *et al.* [K2K Collaboration]
Phys. Rev. D **77**, 032003 (2008) [arXiv:0801.0182 [hep-ex]]

197 Search for Matter-Dependent Atmospheric Neutrino Oscillations in Super-Kamiokande

K. Abe *et al.* [Super-Kamiokande Collaboration]
Phys. Rev. D **77**, 052001 (2008) [arXiv:0801.0776 [hep-ex]]

196 Study of TeV Neutrinos with Upward Showering Muons in Super-Kamiokande

S. Desai *et al.* [Super-Kamiokande Collaboration]
Astropart. Phys. **29**, 42 (2008) [arXiv:0711.0053 [hep-ex]]

195 Search for Supernova Neutrino Bursts at Super-Kamiokande

M. Ikeda *et al.* [Super-Kamiokande Collaboration]
Astrophys. J. **669**, 519 (2007) [arXiv:0706.2283 [astro-ph]]

194 Search for Neutral Q-balls in Super-Kamiokande-II.

Super-Kamiokande Collaboration, Y. Takenaga *et al.*,
Phys.Lett.B647:18-22,2007. [HEP-EX/0608057]

193 A Measurement of Atmospheric Neutrino Flux Consistent with Tau Neutrino Appearance.

Super-Kamiokande Collaboration, K. Abe *et al.*
Phys.Rev.Lett.97:171801,2006. [HEP-EX/0607059]

192 Search for Diffuse Astrophysical Neutrino Flux Using Ultrahigh Energy Upward-going Muons in Super-Kamiokande I.

Super-Kamiokande Collaboration, M. E.C. Swanson *et al.*
Astrophys.J.652:206-215,2006. [ASTRO-PH/0606126]

191 Measurement of Neutrino Oscillation by the K2K Experiment.

K2K Collaboration, M.H. Ahn *et al.*
Phys.Rev.D74:072003,2006. [HEP-EX/0606032]

190 High Energy Neutrino Astronomy Using Upward-going Muons in Super-Kamiokande-I.

Super-Kamiokande Collaboration, K. Abe *et al.*

Astrophys.J.652:198,2006. [ASTRO-PH/0606413]

189 Three Flavor Neutrino Oscillation Analysis of Atmospheric Neutrinos in Super-Kamiokande.

Super-Kamiokande Collaboration, J. Hosaka *et al.*

Phys.Rev.D74:032002,2006. [HEP-EX/0604011]

188 An Improved Search for $\nu_\mu \rightarrow \nu_e$ Oscillation in a Long-baseline Accelerator Experiment.

K2K Collaboration, S. Yamamoto *et al.*

Phys.Rev.Lett.96:181801,2006. [HEP-EX/0603004]

187. Measurement of the Quasi-elastic Axial Vector Mass in Neutrino-Oxygen Interactions.

K2K Collaboration, R. Gran *et al.*

Phys.Rev.D74:052002,2006. [HEP-EX/0603034]

186. Observation of the Anisotropy of 10-TeV Primary Cosmic Ray Nuclei Flux With the Super-Kamiokande-I Detector.

Super-Kamiokande Collaboration, G. Guillian *et al.*

Phys.Rev.D75:062003,2007. [ASTRO-PH/0508468]

185. Solar Neutrino Measurements in Super-Kamiokande-I.

Super-Kamiokande Collaboration, J. Hosaka *et al.*

Phys.Rev.D73:112001,2006. [HEP-EX/0508053]

184. Search for Coherent Charged Pion Production in Neutrino Carbon Interactions.

K2K Collaboration, M. Hasegawa *et al.*

Phys.Rev.Lett.95:252301,2005. [hep-ex/0506008]

183. Search for Nucleon Decay via Modes Favored by Supersymmetric Grand Unification Models in Super-Kamiokande-I.

Super-Kamiokande Collaboration, K. Kobayashi *et al.*

Phys. Rev. D **72**, 052007 (2005). [hep-ex/0502026]

182. A Measurement of Atmospheric Neutrino Oscillation Parameters by Super-Kamiokande I.

Super-Kamiokande Collaboration, Y. Ashie *et al.*

Phys. Rev. D **71**, 112005 (2005). [hep-ex/0501064]

181. EVIDENCE FOR MUON NEUTRINO OSCILLATION IN AN ACCELERATOR-BASED EXPERIMENT.

K2K Collaboration, E. Aliu *et al.*

Phys. Rev. Lett. **94**, 081802 (2005) [hep-ex/0411038]

180. MEASUREMENT OF SINGLE π^0 PRODUCTION IN NEUTRAL CURRENT NEUTRINO INTERACTIONS WITH WATER BY A 1.3-GEV WIDE BAND MUON NEUTRINO BEAM.

K2K Collaboration, S. Nakayama *et al.*

Phys. Lett. **B619**, 255 (2005). [hep-ex/0408134]

179. THE K2K SCIBAR DETECTOR.

K. Nitta *et al.*

Nucl.Instrum.Meth.A535:147-151,2004. [hep-ex/0406023]

178. EVIDENCE FOR AN OSCILLATORY SIGNATURE IN ATMOSPHERIC NEUTRINO OSCILLATION.

Super-Kamiokande Collaboration, Y. Ashie et al.
Phys.Rev.Lett.93:101801,2004. [hep-ex/0404034]

177. SEARCH FOR DARK MATTER WIMPS USING UPWARD THROUGH-GOING MUONS IN SUPER-KAMIOKANDE.

Super-Kamiokande Collaboration, S. Desai et al.
Phys.Rev.D70:083523,2004, Erratum-ibid.D70:109901,2004. [hep-ex/0404025]

176. SEARCH FOR ELECTRON NEUTRINO APPEARANCE IN A 250 KM LONG BASELINE EXPERIMENT.

K2K Collaboration, M.H. Ahn et al.
Phys.Rev.Lett.93:051801,2004. [hep-ex/0402017]

175. LIMITS ON THE NEUTRINO MAGNETIC MOMENT USING 1496 DAYS OF SUPER-KAMIOKANDE-I SOLAR NEUTRINO DATA.

Super-Kamiokande Collaboration, D.W. Liu et al.
Phys.Rev.Lett.93:021802,2004. [hep-ex/0402015]

174. PRECISE MEASUREMENT OF THE SOLAR NEUTRINO DAY / NIGHT AND SEASONAL VARIATION IN SUPER-KAMIOKANDE-1.

Super-Kamiokande Collaboration, M.B. Smy et al.
Phys.Rev.D69:011104,2004. [hep-ex/0309011]

173. A SEARCH FOR PERIODIC MODULATIONS OF THE SOLAR NEUTRINO FLUX IN SUPER-KAMIOKANDE I.

Super-Kamiokande Collaboration, J. Yoo et al.
Phys.Rev.D68:092002,2003. [hep-ex/0307070]

172. THE SUPER-KAMIOKANDE DETECTOR.

Super-Kamiokande Collaboration, Y. Fukuda et al.
Nucl.Instrum.Meth.A501:418-462,2003.

171. SEARCH FOR ANTI-NU(E) FROM THE SUN AT SUPER-KAMIOKANDE-I.

Super-Kamiokande Collaboration, Y. Gando et al.
Phys.Rev.Lett.90:171302,2003. [HEP-EX/0212067]

170. INDICATIONS OF NEUTRINO OSCILLATION IN A 250 KM LONG BASELINE EXPERIMENT.

K2K Collaboration, S.H. Ahn et al.
Phys.Rev.Lett.90:041801,2003. [HEP-EX/0212007]

169. SEARCH FOR SUPERNOVA RELIC NEUTRINOS AT SUPER-KAMIOKANDE.

Super-Kamiokande Collaboration, M. Malek et al.
Phys.Rev.Lett.90:061101,2003. [HEP-EX/0209028]

168. TRACKING PERFORMANCE OF THE SCINTILLATING FIBER DETECTOR IN THE K2K EXPERIMENT.

K2K Collaboration, B.J. Kim et al.
Nucl.Instrum.Meth.A497:450-466,2003. [HEP-EX/0206041]

167. DETERMINATION OF SOLAR NEUTRINO OSCILLATION PARAMETERS USING 1496 DAYS OF SUPERKAMIOKANDE I DATA.

Super-Kamiokande Collaboration, S. Fukuda et al.
Phys.Lett.B539:179-187,2002. [HEP-EX/0205075]

166. SEARCH FOR NEUTRINOS FROM GAMMA-RAY BURSTS USING SUPER-KAMIOKANDE.

Super-Kamiokande Collaboration, S. Fukuda et al.
Astrophys.J.578:317-324,2002. [ASTRO-PH/0205304]

165. SOLAR B-8 AND HEP NEUTRINO MEASUREMENTS FROM 1258 DAYS OF SUPERKAMIOKANDE DATA.

Super-Kamiokande Collaboration, S. Fukuda et al.
Phys.Rev.Lett.86:5651-5655,2001. [HEP-EX/0103032]

164. CONSTRAINTS ON NEUTRINO OSCILLATIONS USING 1258 DAYS OF SUPERKAMIOKANDE SOLAR NEUTRINO DATA.

Super-Kamiokande Collaboration, S. Fukuda et al.,
Phys.Rev.Lett.86:5656-5660,2001. [HEP-EX/0103033]

163. DETECTION OF ACCELERATOR PRODUCED NEUTRINOS AT A DISTANCE OF 250-KM.

K2K Collaboration, S.H. Ahn et al.
Phys.Lett.B511:178-184,2001. [HEP-EX/0103001]

162. TAU NEUTRINOS FAVORED OVER STERILE NEUTRINOS IN ATMOSPHERIC MUON NEUTRINO OSCILLATIONS.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys.Rev.Lett.85:3999-4003,2000. [HEP-EX/0009001]

161. N-16 AS A CALIBRATION SOURCE FOR SUPERKAMIOKANDE.

Super-Kamiokande Collaboration, E. Blaufuss et al.
Nucl.Instrum.Meth.A458:638-649,2001. [HEP-EX/0005014]

160. DESIGN, CONSTRUCTION, AND OPERATION OF SCIFI TRACKING DETECTOR FOR K2K EXPERIMENT.

K2K Collaboration, A. Suzuki *et al.*
Nucl.Instrum.Meth.A453:165-176,2000. [HEP-EX/0004024]

159. INCLUSIVE JET CROSS-SECTIONS IN ANTI-P P COLLISIONS AT $S^{}(1/2) = 630\text{-GEV}$ AND 1800-GEV .**

DØ Collaboration, B. Abbott *et al.*
Nucl.Phys.Proc.Suppl.79:229-231,1999. [HEP-EX 0001063]

158. NEUTRINO INDUCED UPWARD STOPPING MUONS IN SUPER-KAMIOKANDE.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys.Lett.B467:185-193,1999. [HEP-EX/9908049]

157. MEASUREMENT OF THE INCLUSIVE DIFFERENTIAL CROSS-SECTION FOR Z BOSONS AS A FUNCTION OF TRANSVERSE MOMENTUM IN ANTI-P P COLLISIONS AT $S^{}(1/2) = 1.8\text{-TEV}$.**

DØ Collaboration, B. Abbott *et al.*
Phys.Rev.D61:032004,2000. [HEP-EX/9907009]

156. SEARCH FOR R PARITY VIOLATING SUPERSYMMETRY IN THE DI-ELECTRON CHANNEL.

DØ Collaboration, B. Abbott *et al.*
Phys.Rev.Lett.83:4476-4481,1999. [HEP-EX/9907019]

155. SMALL ANGLE MUON AND BOTTOM QUARK PRODUCTION IN P ANTI-P COLLISIONS AT $S^{}(1/2) = 1.8$ -TEV.**

DØ Collaboration, B. Abbott *et al.*
Phys.Rev.Lett.84:5478-5483,2000. [HEP-EX 9907029]

154. EXTRACTION OF THE WIDTH OF THE W BOSON FROM MEASUREMENTS OF $\Sigma(P \text{ ANTI-P} \rightarrow W + X) \times B(W \rightarrow E \text{ NEUTRINO})$ AND $\Sigma(P \text{ ANTI-P} \rightarrow Z + X) \times B(Z \rightarrow E E)$ AND THEIR RATIO.

DØ Collaboration, B. Abbott *et al.*
Phys.Rev.D61:072001,2000. [HEP-EX/9906025]

153. STUDIES OF W W AND W Z PRODUCTION AND LIMITS ON ANOMALOUS W W GAMMA AND W W Z COUPLINGS.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D60:072002, 1999.

152. THE B ANTI-B PRODUCTION CROSS-SECTION AND ANGULAR CORRELATIONS IN P ANTI-P COLLISIONS AT $S^{}(1/2) = 1.8$ -TEV.**

DØ Collaboration, B. Abbott *et al.*
Phys.Lett.B487:264-272,2000. [HEP-EX/9905024]

151. SEARCH FOR PROTON DECAY THROUGH $P \rightarrow \text{ANTI-NEUTRINO } K^+$ IN A LARGE WATER CERENKOV DETECTOR.

Super-Kamiokande Collaboration, Y. Hayato *et al.*
Phys. Rev. Lett. 83 (1999) 1529-1533.

150. SEARCH FOR SECOND GENERATION LEPTOQUARK PAIRS DECAYING TO MUON NEUTRINO + JETS IN P ANTI-P COLLISIONS AT $S^{}(1/2) = 1.8$ -TEV.**

DØ Collaboration, B. Abbott *et al.*
Phys.Rev.Lett.83:2896-2901,1999. [HEP-EX/9904023]

149. MEASUREMENT OF RADON CONCENTRATIONS AT SUPER-KAMIOKANDE.

Super-Kamiokande Collaboration, Y. Takeuchi *et al.*
Phys. Lett. B452 (1999) 418-424.

148. SEARCH FOR BOTTOM SQUARKS IN ANTI-P P COLLISIONS AT $S^{}(1/2) = 1.8$ -TEV.**

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D60:031101, 1999.

147. SEARCH FOR CHARGED HIGGS BOSONS IN DECAYS OF TOP QUARK PAIRS.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82:4975-4980, 1999.

146. SEARCH FOR SQUARKS AND GLUINOS IN EVENTS CONTAINING JETS AND A LARGE IMBALANCE IN TRANSVERSE ENERGY.

DØ Collaboration, B. Abbott *et al.*
Phys.Rev.Lett.83:4937-4942,1999.

145. OBSERVATION OF THE EAST - WEST ANISOTROPY OF THE ATMOSPHERIC NEUTRINO FLUX.

Super-Kamiokande Collaboration, T. Futagami *et al.*
Phys. Rev. Lett. 82 (1999) 5194-5197.

144. MEASUREMENT OF THE TOP QUARK PAIR PRODUCTION CROSS-SECTION IN THE ALL JETS DECAY CHANNEL.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 83 (1999) 1908-1913.

143. MEASUREMENT OF W AND Z BOSON PRODUCTION CROSS-SECTIONS.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D60:052003, 1999.

142. CONSTRAINTS ON NEUTRINO OSCILLATION PARAMETERS FROM THE MEASUREMENT OF DAY NIGHT SOLAR NEUTRINO FLUXES AT SUPER-KAMIOKANDE.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Rev. Lett. 82:1810-1814, 1999.

141. MEASUREMENT OF THE SOLAR NEUTRINO ENERGY SPECTRUM USING NEUTRINO ELECTRON SCATTERING.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Rev. Lett. 82:2430-2434, 1999.

140. MEASUREMENT OF THE HIGH MASS DRELL-YAN CROSS-SECTION AND LIMITS ON QUARK ELECTRON COMPOSITENESS SCALES.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82 (1999) 4769-4774.

139. MEASUREMENT OF THE FLUX AND ZENITH ANGLE DISTRIBUTION OF UPWARD THROUGH GOING MUONS BY SUPERKAMIOKANDE.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Rev. Lett. 82 (1999) 2644-2648).

138. CONSTRAINTS ON NEUTRINO OSCILLATION PARAMETERS FROM THE MEASUREMENT OF DAY NIGHT SOLAR NEUTRINO FLUXES AT SUPERKAMIOKANDE.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Rev. Lett. 82:1810-1814, 1999.

137. SEARCH FOR HIGH MASS PHOTON PAIRS IN P ANTI-P → GAMMA-GAMMA JET-JET EVENTS AT S(1/2. = 1.8-TEV.**

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82 (1999) 2244-2249.

136. PROBING HARD COLOR SINGLET EXCHANGE IN P ANTI-P COLLISIONS AT $S^{}(1/2) = 630\text{-GEV}$ AND 1800-GEV .**

DØ Collaboration, B. Abbott *et al.*
Phys. Lett. B440:189-202, 1998.

135. MEASUREMENT OF THE TOP QUARK PAIR PRODUCTION CROSS-SECTION IN P ANTI-P COLLISIONS USING MULTIJET FINAL STATES.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D60:012001, 1999.

134. MEASUREMENT OF THE TOP QUARK MASS IN THE DILEPTON CHANNEL.

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D60:052001,1999.

133. SEARCH FOR SQUARKS AND GLUINOS IN SINGLE PHOTON EVENTS WITH JETS AND LARGE MISSING TRANSVERSE ENERGY IN P ANTI-P COLLISIONS AT $S^{}(1/2) = 1.8\text{-TEV}$.**

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82:29-34, 1999.

132. SMALL ANGLE J / PSI PRODUCTION IN P ANTI-P COLLISIONS AT $S^{}(1/2) = 1.8\text{-TEV}$.**

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82:35-40, 1999.

131. CALIBRATION OF SUPERKAMIOKANDE USING AN ELECTRON LINAC.

Super-Kamiokande Collaboration, M. Nakahata *et al.*
Nucl. Instrum. Methods A421 (1999) 113-129.

130. THE DIJET MASS SPECTRUM AND A SEARCH FOR QUARK COMPOSITENESS IN ANTI-P P COLLISIONS AT $S^{}(1/2) = 1.8\text{-TEV}$.**

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82:2457-2462, 1999.

129. THE INCLUSIVE JET CROSS-SECTION IN ANTI-P P COLLISIONS AT $S^{}(1/2) = 1.8\text{-TEV}$.**

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 82:2451-2456, 1999.

128. EVIDENCE FOR OSCILLATION OF ATMOSPHERIC NEUTRINOS.

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Rev. Lett. 81:1562-1567, 1998.

127. SEARCH FOR PROTON DECAY VIA $P \rightarrow E + \pi_0$ IN A LARGE WATER CERENKOV DETECTOR.

Super-Kamiokande Collaboration, M. Shiozawa *et al.*
Phys. Rev. Lett. 81:3319-3323, 1998.

126. DETERMINATION OF THE ABSOLUTE JET ENERGY SCALE IN THE DØ

CALORIMETERS.

DØ Collaboration, B. Abbott *et al.*
Nucl. Instrum. Methods A424 (1999). 352-394).

125. Measurements of the Solar Neutrino Flux from Super-Kamiokande's First 300 Days

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Rev. Lett. 81, 1158 (1998).

124. Study of the Atmospheric Neutrino Flux in the Multi-GeV Energy Range

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Letters B436, 33 (1998).

123. Limits on Anomalous $WW\gamma$ and WWZ Couplings

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D58, 031102 (1998).

122. Search for Heavy Pointlike Dirac Monopoles

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 81, 524 (1998)

121. Search for Charge 1/3 Third Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 81, 38 (1998)

120. Measurement of the Shape of the Transverse Momentum Distribution of W Bosons Produced in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. Lett. 80, 5498 (1998)

119. Limits on $WW\gamma$ and WWZ Couplings from W Boson Pair Production

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D58, 051101 (1998)

118. Direct Measurement of the Top Quark Mass at DØ

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D58, 052001 (1998)

117. A Measurement of the W Boson Mass

DØ Collaboration, B. Abbott *et al.*
Phys. Rev. D58, 092003 (1998).

116. Measurement of a Small Atmospheric ν_μ/ν_e Ratio

Super-Kamiokande Collaboration, Y. Fukuda *et al.*
Phys. Letters B433, 9 (1998).

115. Search for the Decay $b \rightarrow s\mu\mu$

DØ Collaboration, B. Abbott *et al.*
Phys. Lett. B423, 419 (1998).

114. A Measurement of the W Boson Mass

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 80, 3008 (1998).

113. Search for First Generation Scalar Leptoquark Pairs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 80, 2051 (1998).

112. $Z\gamma$ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV and Limits on Anomalous $ZZ\gamma$ and $Z\gamma\gamma$ Couplings

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. D57, 3817 (1998).

111. Experimental Search for Chargino and Neutralino Production via Gauge-Mediated Supersymmetry Breaking Models

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 80, 442 (1998).

110. Search for Scalar Leptoquark Pairs Decaying to Electrons and Jets in $p\bar{p}$ Collisions

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 79, 4321 (1997).

109. Measurement of the Top Quark Mass Using Dilepton Events

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 80, 2063 (1998).

108. Color Coherent Radiation in Multijet Events from $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, B. Abbott *et al.*

Phys. Lett. B414, 419 (1997).

107. Search for the Tripleton Signature from the Associated Production of SUSY $\tilde{\chi}_1^\pm \tilde{\chi}_2^0$ Gauginos

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 80, 1591 (1998).

106. Limits on WWZ and $WW\gamma$ Couplings from $p\bar{p} \rightarrow e\nu jjX$ Events at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, B. Abbott *et al.*

Phys. Rev. Lett. 79, 1441 (1997).

105. Measurement of the Top Quark Pair Production Cross Section in $p\bar{p}$ Collisions

DØ Collaboration, S. Abachi *et al.*

Phys. Rev. Lett. 79, 1203 (1997).

104. Studies of Gauge Boson Pair Production and Trilinear Couplings

DØ Collaboration, S. Abachi *et al.*

Phys. Rev. D56, 6742 (1997).

103. Direct Measurement of the Top Quark Mass

DØ Collaboration, S. Abachi *et al.*

Phys. Rev. Lett. 79, 1197 (1997).

102. Study of the $ZZ\gamma$ and $Z\gamma\gamma$ Couplings in $Z(\nu\nu)\gamma$ Production

DØ Collaboration, S. Abachi *et al.*

Phys. Rev. Lett. 78, 3640 (1997).

101. Search for Top Squark Pair Production in the Dielectron Channel

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. D57, 589 (1998).

100. Limits on Anomalous $WW\gamma$ Couplings from $p\bar{p} \rightarrow W\gamma + X$ Events at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 78, 3634 (1997).

99. Search for a Fourth Generation $-1/3$ Quark via Flavor Changing Neutral Current Decay

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 78, 3818 (1997).

98 Search for Diphoton Events with Large Missing Transverse Energy in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 78, 2070 (1997).

97. Isolated Photon Cross Section in the Central and Forward Rapidity Region in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 77, 5041 (1996).

96. Search for additional neutral gauge bosons

DØ Collaboration, S. Abachi *et al.*
Phys. Lett. B385, 471 (1996).

95. Measurement of the W boson mass

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 77, 3309 (1996).

94. Search for anomalous WW and WZ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 77, 3303 (1996).

93. Azimuthal decorrelation of jets widely separated in rapidity

DØ Collaboration, S. Abachi *et al.*
Phys. Rev. Lett. 77, 595 (1996).

92. J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV

DØ Collaboration, S. Abachi *et al.*
Phys. Lett. B370, 239 (1996).

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29. Linear Collider Workshop (LC2002), Jeju, Korea, August, 2002

Review of Status of Neutrino Physics

28. Symposium in honor of Professor Jogesh Pati's 65th birthday (Patifest), Univ. of Maryland, College Park, Maryland, May 2002

Quest for Grand Unification: Experimental View

27. International conference on Weak Interactions and Neutrinos (WIN02), Christchurch, New Zealand, January 2002

Next Generation Underground Water Cherenkov Detectors

26. A Workshop on "Large Detectors for Proton decay, Supernovae and Atmospheric Neutrinos and Low Energy Neutrinos from High Intensity Beams" (NNN02-CERN), Geneva, Switzerland, January 2002

Summary Talk: "Where do we go from here? US perspective"

25. A Workshop on "Future Opportunities for Neutrino Physics", Victoria, Canada, November 2001

UNO

24. Conference on Underground Science, Lead, South Dakota, October 2001

Atmospheric Neutrinos and Proton Decay Working Group Summary

23. Lepton-Photon International Conference (LP01), Rome, Italy, Jul. 2001

Recent results from K2K experiment

22. Snowmass Workshop on future of the High Energy Physics, Snowmass, CO, Jul. 2001

Physics potential and feasibility of UNO (Underground Nucleon decay and Neutrino Observatory); Staging neutrino program (Pannel discussion); Proton decay and UNO

21. Neutrino factory Workshop (NuFact01), Tsukuba, Japan, May 2001

UNO as a far detector for Neutrino Factories

20. BNL Snowmass day Workshop, BNL, Brookhaven, Upton, NY, Mar. 2001

Neutrino Physics and Proton Decay

19. APS Division of Nuclear Physics annual meeting (DNP00), Willamsburg, VA, Oct. 2000

Recent Results from Super-Kamiokande and K2K experiments

18. Neutrino Workshop, U. of Washington, Seattle, WA, Sep. 2000

UNO

17. NNN00-Fermilab, Batavia, IL, Aug. 2000
UNO Proposal Update and General Discussion

16. WIPP (Waste Isolation Pilot Plant) Underground Physics workshop, Carlsbad, NM, Jun. 2000
Physics Potential and Feasibility of UNO

15. NNN00-UCI Nucleon decay working group Workshop, UCI, Irvine, CA, Feb. 2000
Proposal for a Ultra Underground Nucleon decay and Neutrino Observatory (UNO) Detector

14. 2000 AAAS Annual Meeting - Symposium on Neutrinos, Washington D.C. February 2000
Recent Results on Neutrino Oscillations and Solar Neutrinos from Super-Kamiokande

13. International Workshop on Next generation Nucleon decay and Neutrino detector (NNN99),
Stony Brook, New York, September 1999
Nucleon Working Group Synopsis
Feasibility Study of the Next generation Underground Large Water Cherenkov Detector

12. International Europhysics Conference on High Energy Physics (EPS99), Tampere, Finland,
July 1999
Neutrino Masses and Oscillations

11. Ringberg Euroconference: New Trend in Neutrino Physics, Rottach-Egern, Germany, 24-29
May, 1998
Status and Prospects of atmospheric neutrino experiments: (SuperK, Sudan II, K2K...)

10. International conference on Weak Interactions and Neutrinos (WIN97), Capri, Italy, June 1997
Status of K2K (KEK E362) Long Baseline Neutrino Oscillation Experiment

9. Fermilab Fixed Target Workshop, Fermilab, Batavia, Illinois, May 1997
Status of K2K (KEK E362) Long Baseline Neutrino Oscillation Experiment

8. La Thuile '97 Conference: Results and Perspectives in Particle Physics, La Thuile, Italy, 2-8
Mar. 1997
New Results from Super-Kamiokande experiment

7. American Chemical Society (ACS) Meeting, Washington D.C., Aug. 1994
Neutrino Physics with the Super-Kamiokande Detector

6. XXVII International Conference on High Energy Physics, Glasgow, Scotland, Jul. 1994
W mass measurements from DØ and CDF experiments at TeVatron

5. XXVI International Conference on High Energy Physics, Southern Methodist University, Dallas,
Texas, Aug. 1992
An Experimental Explanation of Tau Lepton Decay Puzzle: Discrepancy between the Measured
and the Theoretical Tau Lifetimes

4. Annual Meeting of the Division of Particles and Fields of the American Physical Society, Rice University, Houston, Texas, Jan. 1990
Search for Heavy Neutrinos Produced in Z decays
3. Snowmass Workshop 88, Snowmass, Colorado, Jul. 1988
Search for Non-Minimal Neutral Higgs Particle at 1TeV
2. Twenty first Rencontre de Moriond, Les Arcs, France, Mar. 1986
Measurement of the F^\pm Meson Lifetime
1. Annual Meeting of the Division of Particles and Fields of the American Physical Society, University of Oregon, Eugene, Oregon, Aug. 1985
Lifetime Measurement of the F^\pm Mesons

• **Colloquia**

35. Dept. of Physics, Oklahoma State University, Stillwater, Oklahoma, Feb. 2007
Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground
34. Dept. of Geology, The State University of New York at Stony Brook, Stony Brook, New York, February 2006
Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground
33. Dept. of Physics and Astronomy, University of Denver, Denver, Colorado, January 2006
Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground
32. Dept. of Physics and Astronomy, The State University of New York at Stony Brook, Stony Brook, New York, December 2005
Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground
31. Dept. of Physics and Astronomy, University of Connecticut, Storrs, Connecticut, October 2004
Einstein's Dream, Neutrino Revolution and UNO
30. Dept. of Physics, University of Colorado, Boulder, Colorado, September 2004
Einstein's Dream, Neutrino Revolution and UNO
29. Dept. of Physics and Astronomy, The State University of New York at Stony Brook, Stony Brook, New York, April 2004
Einstein's Dream, Neutrino Revolution and UNO
28. Dept. of Physics and Astronomy, Rutgers University, New Brunswick, New Jersey, February 2004
Feasibility and Physics Potential of UNO (Underground Nucleon decay and Neutrino Observatory): Quest for Grand Unification and Neutrino Physics
27. Dept. of Physics, University of Utah, Salt Lake City, Utah, December 2003

Feasibility and Physics Potential of UNO (Underground Nucleon decay and Neutrino Observatory):
Quest for Grand Unification and Neutrino Physics

26. Dept. of Physics, Colorado School of Mines, Golden, Colorado, November 2003
Feasibility and Physics Potential of UNO (Underground Nucleon decay and Neutrino Observatory):
Quest for Grand Unification and Neutrino Physics

25. Dept. of Physics and Astronomy, Colorado State University, Fort Collins, Colorado, November
2003
Feasibility and Physics Potential of UNO (Underground Nucleon decay and Neutrino Observatory):
Quest for Grand Unification and Neutrino Physics

24. Dept. of Physics and Astronomy, University of Nebraska, Lincoln, Nebraska, May 2003
Discovery of Neutrino Oscillations in Atmospheric Neutrinos and Its Implications

23. Dept. of Physics, Purdue University, West Lafayette, Indiana, Mar. 2003
Discovery of Neutrino Oscillations in Atmospheric Neutrinos and Its Implications

22. Fermilab Colloquium, FNAL, Batavia, Illinois, June 2002
Physics Potential and Feasibility of UNO: Quest for Grand Unification and Neutrino Physics

21. Dept. of Physics and Astronomy, U. of Minnesota, Minneapolis, Minnesota, March 2002
K2K Experiment

20. Joint Colloquium of Nuclear and Particle Physics Division, LBNL, Berkeley, CA, Apr. 2001
UNO

19. Dept. of Physics, Kyungbuk Univ., Daegu, Korea, Mar. 2000
Evidence for non-zero neutrino mass: Recent results from the Super-Kamiokande experiment

18. Dept. of Physics, Chonnam Univ., Chonnam, Korea, Mar. 2000
Evidence for non-zero neutrino mass: Recent results from the Super-Kamiokande experiment

17. KIAS (Korean Institute for Advanced Studies), Seoul, Korea Mar. 2000
Evidence for non-zero neutrino mass: Recent results from the Super-Kamiokande experiment

16. Dept. of Physics, Indiana University, Bloomington, Indiana, Oct. 1999
Evidence for non-zero neutrino mass

15. TRIUMF Canadian National lab, Vancouver, Canada, May. 1999
Evidence for non-zero neutrino mass

14. Dept. of Physics, Michigan State University, East Lansing, Michigan Mar. 1999
Evidence for non-zero neutrino mass

13. Dept. of Physics, Rutgers University, Camden, New Jersey, Mar. 1999
Evidence for non-zero neutrino mass

12. Dept. of Physics, University of Oregon, Eugene, Oregon Feb. 1999
Evidence for non-zero neutrino mass

11. Dept. of Physics, University of Michigan, Ann Arbor, Michigan Sep. 1998
Evidence for non-zero neutrino mass
10. Dept. of Physics and Astronomy, University of Nebraska, Lincoln, Nebraska Apr. 1998
Pursuit of Neutrino Oscillations: Where are we?
9. Dept. of Physics, Yale University, New Haven, Connecticut Feb. 1998
Pursuit of Neutrino Oscillations: Where are we?
8. Dept. of Physics and Astronomy, SUNY at Stony Brook, Stony Brook, New York Feb. 1998
Pursuit of Neutrino Oscillations: Where are we?
7. Dept. of Physics, Rutgers University, Camden, New Jersey, Mar. 1997
We see stars underground.
6. Physics Division, Brookhaven National Laboratory, Upton, New York, Feb. 1997
We see stars underground.
5. Dept. of Physics and Astronomy, The University of Kansas, Lawrence, Kansas, Sep. 1996
We see stars underground.
4. Physics Dept., The State University of New York, Stony Brook, New York, Sep. 1996
We see stars underground.
3. Physics Dept., Louisiana State University, Baton Rouge, Louisiana, May. 1996
Recent Results from DØ Experiment
2. Physics Dept., University of California, Davis, California, Apr. 1990
Search for New Neutrinos in Z Decays
1. Physics Dept., Vanderbilt University, Nashville, TN, Mar. 1990
Search for New Neutrinos in Z Decays

• **Seminars**

41. Dept. of Physics, Oklahoma State University, Stillwater, Oklahoma, Feb. 2007
T2K (Tokai to Kamioka) Long Baseline Neutrino Oscillation Experiment
40. Physics dept., Univ. of Chicago, Chicago, Illinois, Oct. 2006
Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground
39. Physics Dept., University of Michigan, Ann Arbor, Michigan, Oct. 2006
Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground
38. Stanford Linear Accelerator Center, Menlo Park, California, March 2006

T2K (Tokai to Kamioka) Long Baseline Neutrino Oscillation Experiment

37. Stanford Linear Accelerator Center, Menlo Park, California, March 2006

Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground

36. California Institute of Technology, Pasadena, California, October 2005

UNO & Henderson Deep Underground Science and Engineering Laboratory

35. University of Balencia, Balencia, Spain, June 2005

Einstein's Dream, Neutrino Revolution and UNO

34. Institute of High Energy Physics (IFAE), Universitat Autònoma de Barcelona, Bellaterra, Spain, April 2005

Special Seminar 2: Survey of Next generation Nucleon decay Neutrino (NNN) Detectors and Proposed Sites (Including an Introduction to US DUSEL Initiative)

33. Institute of High Energy Physics (IFAE), Universitat Autònoma de Barcelona, Bellaterra, Spain, April 2005

Special Seminar 1: Einstein's Dream, Neutrino Revolution and UNO

32. Dept. of Physics, Univ. of Washington, Seattle, Washington, March 2003 Physics Potential and Feasibility of UNO: Quest for Grand Unification and Neutrino Physics

31. Dept. of Physics, Brookhaven National Laboratory, Upton, New York, Feb. 2003

Recent Results, Current Status and Future Plans of The K2K Experiment

30. CESR lab, Cornell University, Ithaca, New York, Oct. 2002

Recent Results, Current Status and Future Plans of The K2K Experiment

29. Dept. of Physics, California Inst. of Tech, Pasadena, CA, Jan. 2001

UNO

28. Dept. of Physics, Brookhaven National Laboratory, Upton, New York, Mar. 2000

Recent Results from K2K

27. Physics dept., Univ. of Chicago, Chicago, Illinois, Mar. 2000

Recent Results from Super-Kamiokande

26. Physics dept., Univ. of Rochester, Rochester, New York, Feb. 2000

Recent Results from K2K

25. CESR lab, Cornell University, Ithaca, New York, Jul. 1998

Evidence for Non-zero Neutrino Mass

24. Dept. of Physics and Astronomy, SUNY at Stony Brook, Stony Brook, New York Jun. 1998

Special HEP seminar: Evidence for Non-zero Neutrino Mass

23. Dept. of Physics, Brookhaven National Laboratory, Upton, New York, Feb. 1998

Recent Results from Super-Kamiokande experiment: Neutrino Oscillations

22. Physics dept., Univ. of Rochester, Rochester, New York, Feb. 1997

We see stars underground: Status of Super-Kamiokande experiment

21. Physics dept., Princeton University, Princeton, New Jersey, Dec. 1996

We see stars underground: Status of Super-Kamiokande experiment

20. Physics Dept., Univ. of Pennsylvania, Philadelphia, Pennsylvania, Dec. 1996
Status of the Super-Kamiokande: after half year of running

19. Research Progress Meeting, Physics Division, The Lawrence Berkeley National Laboratory, Berkeley, California, June 1996
Super-kamiokande Project: Overview and Status

18. Chemistry Dept., The State University New York, Stony Brook, New York, Apr. 1995
Physical Chemistry Seminar
The Super-Kamiokande Experiment: Overview and Status

17. Physics Dept., University of Michigan, Ann Arbor, Michigan, Mar. 1995
The Super-Kamiokande Experiment: Overview and Status

16. Physics Dept., Columbia University, New York, New York, Mar. 1995
The Super-Kamiokande Experiment: Overview and Status

15. Physics Division, Brookhaven National Laboratory, Upton, New York, Mar. 1994
The Super-Kamiokande Experiment

14. Physics Dept., Columbia University, New York, New York, Apr. 1992
An Experimental Explanation of Tau Lepton Decay Puzzle: Discrepancy between the Measured and the Theoretical Tau Lifetimes

13. Physics Dept., Harvard University, Cambridge, MA, Apr. 1990
Search for long-lived Massive Neutrinos in Z Decays

12. Physics Dept., The State University New York, Stony Brook, New York, Apr. 1990
Search for long-lived Massive Neutrinos in Z Decays

11. Physics Dept., Ohio State University, Columbus, Ohio, Apr. 1990
Search for long-lived Massive Neutrinos in Z Decays

10. Physics Dept., University of Florida, Gainesville, Florida, Mar. 1990
Search for long-lived Massive Neutrinos in Z Decays

9. Physics Dept., Purdue University, West Lafayette, Indiana, Mar. 1990
Search for long-lived Massive Neutrinos in Z Decays

8. Physics Dept., Indiana University, Bloomington, Indiana, Mar. 1990
Search for long-lived Massive Neutrinos in Z Decays

7. Physics Division, LBL, Berkeley, California, Feb. 1990
Search for long-lived Massive Neutrinos in Z Decays

6. SLAC, Stanford, California, Jan. 1989

Group C/Group H Seminars
Beam Position Monitor PARADOX

5. Physics Dept., Indiana University, Bloomington, Indiana, Mar. 1986
Measurement of the F^\pm Meson Lifetime

4. Physics Division, ANL, Argonne, Mar. 1986
Measurement of the F^\pm Meson Lifetime

3. SLAC, Stanford, Jan. 1986
Measurement of the F^\pm Meson Lifetime

2. INFN, Pisa, Italy, Sep. 1985
Measurements of Heavy Meson Lifetimes at HRS

1. LAPP, Annecy, France, Sep. 1985
Measurements of Heavy Meson Lifetimes at HRS

• **Invited Presentations to National and International Committees**

11. The Laboratorio Subterraneo de Canfranc (LSC) Scientific Committee 1st Meeting, January 2008

Opportunities for Underground Geo and Bio Sciences

10. NuSAG Committee, Chicago, May 2006

UNO (Underground Nucleon decay and Neutrino Observatory)

9. Particle Physics Project Prioritization Panel (P5) meeting, April 2006

Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground

8. First NuSAG Committee, Washington D.C., June 2005

US Participation in The T2K Beamline and the 280 m Near Detector

7. SAGENAP Meeting, Washington D.C., April 2004

US Participation in the T2K Beamline and the 280 m Near Detector

6. HEPAP Committee on Facilities, Pittsburg, Pennsylvania, Feb. 2003

UNO (Underground Nucleon decay and Neutrino Observatory)

5. National Academy of Science Neutrino Facilities Assessment Committee (NFAC) meeting, O'hare Hilton, Chicago, Illinois, July 2002

Next Generation Water Cherenkov Detectors for Proton Decay Searches

4. Committee on Physics of Universe Invited Presentations, National Academy of Science, Washington D.C., May 2, 2001

UNO

3. HEPAP Subpanel on long range planning Town Meeting, BNL, Upton, NY, Apr. 19, 2001

UNO

2. HEPAP Subpanel on the Future of the High Energy Physics Program, Stony Brook, Sep. 17, 1997

Overview of the K2K Long Baseline Neutrino Oscillation Experiment

1. HEPAP Subpanel on the Future of the High Energy Physics Program, Stony Brook, Sep. 17, 1997

The Stony Brook HEP Group and Comments on University Infrastructure for HEP Research

• **Invited Public Lectures/Speeches**

17. The Worlds of Physics Lecture Series, Dept. of Physics and Astronomy, SUNY Stony Brook, Stony Brook, New York, March 2008

Physics of Sports: Selected Topics

16. Community Leaders Meeting, Golden, Colorado, August 2005

Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground

15. Phelps Dodge Corporation, Quarterly Meeting, Denver, Colorado, August 2005

Henderson Deep Underground Science and Engineering Laboratory: Unearthing the Secrets of the Universe, Underground

14. Invited Lecture, Universitat Autònoma de Barcelona, Bellaterra, Spain, May 2005

Introduction to the Oriental Languages

13. Invited Lecture, Internet Based DUSEL Lecture Series, Universitat Autònoma de Barcelona, Bellaterra, Spain, March 2005

Henderson DUSEL: Unearthing the Secrets of the Universe Underground

12. Invited Presentation, Colorado State Lt. Governor's Office, Denver, Colorado, April 2004

Neutrino Revolution, Einstein's Dream and the Henderson Mine

11. Invited Lecture, Kyungnam University, Masan, Korea, March 2003

Uncovering the Mysterious World of Neutrinos: Recent Discoveries and Their Implications

10. Invited Lecture, Kyungsang National University, Jinju, Korea, March 2003

Uncovering the Mysterious World of Neutrinos: Recent Discoveries and Their Implications

9. The Worlds of Physics Lecture Series, Dept. of Physics and Astronomy, SUNY Stony Brook, Stony Brook, New York, October, 2002

Uncovering the Mysterious World of Neutrinos: Recent Discoveries and Their Implications

8. High School Students Visit, Dept. of Physics and Astronomy, SUNY Stony Brook, Stony Brook, New York, Sep. 2002

Undergraduate Research Opportunities in the Stony Brook Nucleon Decay and Neutrino (NN) Group

7. Primetime, Dept. of Physics and Astronomy, SUNY at Stony Brook, Stony Brook, New York, April 2002

Physics and Astronomy Majors: Who are they and where are they going?

6. LIPTA (Long Island Physics Teachers Association)/BNL/Quarknet Joint Conference, BNL, Upton, New York, October, 2001

Mysterious World of Neutrinos and Quest for Grand Unification

5. Astronomy Open Night, May 5, 2000, SUNY at Stony Brook
Nature's rare optical displays: Rainbows, Sundogs, Green Flashes, Mirages, Heiligenschein and more...
4. Special public lecture, June 16, 1998, SUNY at Stony Brook
Breakthrough in Particle Physics: Neutrinos Weigh!
3. Sigma Pi Sigma, Physics Honorary Society Induction Ceremony Congratulatory Speech, April 20, 1998, SUNY at Stony Brook
Finding the right career and the balance in life
2. Astronomy Open Night, March 6, 1998, SUNY at Stony Brook
Underground Neutrino Telescopes: A new way of seeing stars.
1. LSE 310-H: Issues in Science and Engineering, Feb. 5, 1998, Keller Residence Hall Living Learning Center, SUNY at Stony Brook
Physics and Society: Some Issues in High Energy Physics

SIGNIFICANT INTERNAL TALKS

Dept. of Physics and Astronomy, SUNY at Stony Brook, Stony Brook, New York, Mar. 2001
High Energy Physics Seminar
UNO

Physics Dept., The State University New York, Stony Brook, New York, May. 1997
Informal High Energy Physics Seminar
Recent results from Super-Kamiokande

Physics Dept., The State University New York, Stony Brook, New York, Apr. 1995
Friday Graduate Physics Seminar
Searching for Phenomena beyond The Standard Model

Physics Dept., The State University New York, Stony Brook, New York, Apr. 1995
High Energy Physics Seminar
The Super-Kamiokande Experiment: Overview and Status

DØ Collaboration, Fermilab, Batavia, Illinois, Jun. 1994
DØ general Col. meeting
Review of SUSY searches at DØ

DØ Collaboration, Fermilab, Batavia, Illinois, Jan. 1994
DØ general Col. meeting
Measurement of the $\sigma \cdot B(W \rightarrow \tau\nu)$ as a test of Lepton Universality and Tau Identification at DØ

Physics Dept., The State University New York, Stony Brook, New York, Oct. 1993
Friday Graduate Physics Seminar
Introduction to The DØ experiment and the Super-Kamiokande Experiment

Physics Dept., The State University New York, Stony Brook, New York, Feb. 1992

High Energy Physics Seminar

An Experimental Explanation of Tau Lepton Decay Puzzle: Discrepancy between the Measured and the Theoretical Tau Lifetimes

SLAC, Stanford, California, Nov. 1987

Group C seminar

Phosphorescent Screen Monitor for the SLC Energy Spectrometer

SLAC, Stanford, California, Mar. 1987

Group C seminar

ϕ , $D_s^\pm(F^\pm)$ and D_s^* Production in the Mark II/PEP Data

SLAC, Stanford, California, Jan. 1987

Group C seminar

Vertex BPM at the Interaction Point of the SLC