



# Large Detectors for Proton Decay, Supernovae and Atmospheric Neutrinos and Low Energy Neutrinos from High Intensity Beams

CERN, Council Chamber, 16-18 January 2002

This Workshop is sponsored by the Programme Committee of the NNN Workshops and the ECFA Studies of a Neutrino Complex.

NNN202

Wednesday 16 January 2002	Thursday 17 January 2002	Friday 18 January 2002
<p><b>8:30 Registration</b></p> <p><b>9:30 Welcome</b> (M. Spiro, R. Cashmore)</p> <p><b>Proton Decay Session</b></p> <p><b>9:45 Theoretical Background to Proton Decay</b> (G. Giudice)</p> <p><b>10:30 Coffee Break</b></p> <p><b>11:00 Current Status and Prospects of Approved Proton Decay Search Experiments</b> (M. Goodman)</p> <p><b>12:00 Atmospheric Neutrinos as Background to Proton Decay</b> (S. Mine)</p>	<p><b>Superbeam Session</b></p> <p><b>9:00 Masses and Mixings of Neutrinos and Leptogenesis.</b> (W. Buchmüller)</p> <p><b>9:30 Phenomenology of Neutrino Oscillations</b> (J. Bernabeu)</p> <p><b>10:00 JHF Neutrino Beams including R&amp;D</b> (T. Kobayashi)</p> <p><b>10:50 Coffee Break</b></p> <p><b>11:20 SPL Superbeam including R&amp;D</b> (R. Garoby/S. Gilardoni)</p> <p><b>12:00 Beta Beams</b> (P. Zucchelli)</p> <p><b>12:30 Physics Reach of Super + Beta Beam</b> (M. Mezzetto)</p>	<p><b>The Challenge of Megaton Cavern Engineering</b></p> <p><b>9:00 US</b> (C. Nelson)</p> <p><b>9:30 Japan</b> (T. Nakagawa)</p> <p><b>10:00 European</b> (M. Levy)</p> <p><b>10:30 Coffee Break</b></p> <p><b>Comparison Session (including "long" Discussions)</b></p> <p><b>11:00 Physics Reach of Different Beams with Same Detector</b> (D. Casper)</p> <p><b>12:00 Comparison of Different Detectors with Same Beam</b> (D. Harris)</p>
<b>13:00 Lunch</b>	<b>13:00 Lunch</b>	<b>13:00 Lunch</b>
<p><b>14:30 n nbar Oscillations</b> (Y. Kamishkov)</p> <p><b>Natural Neutrino Sources Session</b></p> <p><b>15:00 Supernovae : Theory, Expected Rates, Energy Spectrum, Flavor Composition, Time Structure</b> (G. Raffelt)</p> <p><b>15:45 Supernovae : Present Status and Prospects with Approved Experiments</b> (D. Cline)</p> <p><b>16:30 Coffee Break</b></p> <p><b>17:00 Atmospheric Neutrinos : Status and Prospects with Approved Experiments</b> (M. Shiozawa)</p> <p><b>17:45 Solar Neutrinos : Status and Prospects with Approved Experiments</b> (D. Wark)</p>	<p><b>Detector Session</b></p> <p><b>14:30 UNO Overview</b> (C. McGrew)</p> <p><b>15:00 Large Water Cerenkov and R&amp;D</b> (M. Shiozawa)</p> <p><b>15:30 R&amp;D on Photon Detectors</b> (D. Ferenc)</p> <p><b>16:00 Coffee Break</b></p> <p><b>16:30 Liquid Argon plus R&amp;D</b> (A. Rubbia)</p> <p><b>17:15 Liquid Scintillator plus R&amp;D</b> (Y. Kamishkov)</p> <p><b>18:00 OMNIS</b> (S. Murphy)</p> <p><b>Workshop Banquet, Domaine de Choully</b></p> <p><b>19:30 First bus departure</b> Main Entrance of Main Building (bldg. 500)</p> <p><b>19:45 Last bus departure</b> Main Entrance of Main Building (bldg. 500)</p> <p><b>20:00 Banquet</b></p>	<p><b>14:30 Comparison of Detectors for Proton Decay</b> (L. Sulak)</p> <p><b>15:15 Comparison of Detectors for Natural Neutrino Sources</b> (F. Vanucci)</p> <p><b>16:00 Conclusions and where do we go from here</b> (C. Jung, L. Mosca, K. Nakamura, A. Blondel)</p> <p><b>17:00 End of Workshop</b></p>