

Yamanouchi in the Fermilab Program Planning Office can give additional details.

Fermilab is envisaging a broad neutrino programme for the Main Injector era. The laboratory has just approved a short baseline oscillation experiment, E-803, which may be sited in an existing experimental hall in the Proton Area or in a new location. A long baseline oscillation programme will necessarily proceed in stages, with the first step being investigation of possible beam extraction opportunities.

The laboratory already has produced a conceptual design report on Neutrino Physics at the Main Injector using 120 GeV extracted beam. A joint Research Division and Accelerator Division study group is now investigating the feasibility of several new ideas: 1 - extraction of 150 GeV beam to the existing switchyard; 2 - 120 GeV beam at the antiproton target station; and 3 - beam from the 8 GeV booster.

In conjunction with this study group, the Research Division is coordinating an evaluation of the geology and a civil engineering study for the extraction of a new long baseline beam from the Main Injector. The laboratory intends to call for long baseline proposals in the near future, and one proposal has already been received, P-822, to extract beam towards the Soudan-2 proton decay detector located in Minnesota at a distance of 806 kilometres.

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*Sid Drell chairs a new subpanel of the US High Energy Physics Advisory Panel (HEPAP) to look at international collaboration possibilities after the demise of the SSC project.*

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## SUPERCOLLIDER Going international

In the wake of the Superconducting Supercollider (SSC) debacle in the US (December 1993, page 1), US particle physicists are regrouping. 'It is clear that physics interest cannot be changed by an act of Congress,' says Ed Berger of Argonne.

As part of the SSC winding up, US Secretary of Energy has been requested to produce a plan to 'maximize the value of the investment in the project and minimizing the loss to the US, including recommendations as to the feasibility of utilizing SSC assets in whole or in part in pursuit of an international high energy physics endeavour.'

To provide input for this plan, the High Energy Physics Advisory Panel (HEPAP), the 'voice' of the US particle physics community, has formed a new subpanel, chaired by Sid Drell, to study international



collaboration possibilities. An interim report is expected in February, and the final recommendations at the end of May.

Informal exploratory talks have been held at CERN between spokesmen of major CERN experiments and experimental proposals and their counterparts from the major SDC and GEM projects which were being prepared for the SSC.

Meanwhile ways could be found to use SSC termination funding to capitalize on detector research and development work already in the pipeline. On the SSC site in Ellis County, Texas, Fermilab Director John Peoples is supervising the windup of the project, while Joseph Cipriano has been replaced by James Hall as director of the Department of Energy's on-site office. 2,286 personnel had been working on the site, of which 1,983 were employed by the SSC.

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## KEK/NAGOYA/SLAC Highly polarized electrons

In the push by the Japanese KEK Laboratory, in collaboration with university groups and overseas laboratories, to develop new techniques for the future Japan electron-positron collider (JLC), a recent achievement is a significant increase in the efficient yield of highly polarized electrons.

In today's Standard Model, the electrically charged carriers of the weak force communicate only with left-handed particles. The handedness (or direction of the spin)