



CANADA'S NATIONAL LABORATORY FOR  
PARTICLE AND NUCLEAR PHYSICS

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POUR LA RECHERCHE EN PHYSIQUE  
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07 March 2008

## MEMORANDUM

**TO:** Colin Gay, *Chair, Policy and Planning Advisory Committee (PPAC)*  
**FROM:** Timothy Meyer, TRIUMF  
**Five-Year Plan Steering Committee**  
**RE:** Errata in PPAC Materials

Dear Colin,

On behalf of the Five-Year Plan Steering Committee, I write to call your attention to several errors in the package of materials that we provided to you on Saturday, March 1, 2008. We regret these mistakes and recognize that a combination of time pressure and coordination of many different input streams contributed. The Steering Committee as a group takes responsibility for the package and we regret these oversights. I would like to apologize personally to your committee and any members of the community who have been affected by these misrepresentations.

We have been made aware of several technical errors in the "1-pagers." The corrections are listed below.

- Page 17, Lines 9-13 (**ELENA**). Delete and replace with "*In the late 1990s groups at CERN were able to decelerate and trap antiprotons, and compare their properties with normal protons. Precision matter-antimatter comparisons have also been made of electrons and positrons and of positive and negative muons. These are key tests of our understanding of physics. A comparison of the properties of antihydrogen and hydrogen provides a direction to advance this understanding, and it is being vigorously pursued by the ALPHA, ATRAP, and ASACUSA experiments at CERN.*"
- Page 22, Line 43 (**sLHC**). Replace "*The PS2 project requires about 1/2 FTE-years spread over the next two years...*" with "*The PS2 project requires about 2 FTEs...*"
- Page 42, Line 29 (**Computing Services**). Insert the sentences, "*Canadian experimental groups, especially the SNOlab researchers, have requested that TRIUMF provide them*

*with data acquisition support and development. This would only be possible with an increase of at least 2 FTE in personnel.”*

- Page 42, Line 34 (**Computing Services**). Insert the sentence, *“The following TRIUMF staff members provide support to Canadian grant-eligible investigators:”*
- Page 93, Line 20 (**T2K**). Replace *“Neutrinos will be produced using a 0.75 MW 0.8 GeV proton beam at the J-PARC facility in Tokai.”* with *“Neutrinos will be produced using a 0.75 MW 30 GeV proton beam at the J-PARC facility in Tokai.”*
- Page 93, Line 24 (**T2K**). Insert the sentences, *“Phase Two of T2K would upgrade the beam power to 4 MW and potentially involve a 500 ktonne Hyper-Kamiokande detector. An option of having a detector in Korea 1200km away is also under consideration. A proposal to have an intermediate detector at 2km is being developed in order to precisely predict the flux extrapolation between the near and far detectors.”*
- Page 93, Line 30 (**T2K**). Replace *“One possibility would be to replace the TPC and FGD with a combined target/tracker. The T2K proponents are beginning to consider the feasibility of a liquid Argon TPC to perform this dual function.”* with *“The long baseline-neutrino community is examining liquid-argon TPCs for future upgrades.”*

Thank you for your patience and understanding.