



KAY KINOSHITA, HEAD
DEPARTMENT OF PHYSICS
UNIVERSITY OF CINCINNATI
PO BOX 210011
CINCINNATI, OH 45221-0011

400 GEOLOGY/PHYSICS BLDG
345 CLIFTON COURT
(513) 556-0512

February 18, 2013

Prof. Atsuto Suzuki, KEK Director General
High Energy Accelerator Research Organization
1-1 Oho, Tsukuba, Ibaraki 305-0801
Japan

Dear Prof. Suzuki,

I am writing to report on an effect of the data loss that occurred during the transition from the old B computer to the new KEK CC system in early 2012. For his thesis research my Ph.D. student, Daniel Santel, is measuring and fitting the cross section as a function center-of-mass energy for events $e^+e^- \rightarrow Y(nS)\pi^+\pi^-$ ($n=1,2,3$) using the “Ypipi” skim of the energy scan, between the $Y(4S)$ and $Y(6S)$ resonances. About 30% of data at six of the 25 energy points were permanently lost. Dan has run statistical simulations and has determined that the overall increase in statistical error on the final measurement is at most 4%. The most significant effect has been several months of additional studies Dan has had to perform to check the consistency of his result with the earlier Belle publication of a similar measurement based on the six energy points from which data were lost. While this has been inconvenient, I believe it does not compromise the result and will not affect its publishability.

I conclude that the impact of the data loss for Dan’s analysis has been minor and that it will have only a small effect on the final result. While the loss is unfortunate, it was accidental and we do not hold KEK responsible for it. The KEK organization’s management of Belle’s huge and complex data set has overall been efficient, well-organized, and to be commended for enabling the tremendous success of the Belle experiment.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kay Kinoshita'.

Kay Kinoshita
Professor and Head

