Outlook - FPCP 2004

Keeping up the good things...

Y. Kwon (Yonsei Univ.) on behalf of the LOC for FPCP 2004 in Seoul, Korea

Free parameters of the Standard Model

- 17 free parameters in the electroweak interactions (not counting neutrinos)
 - $-G_F$, α , $\sin^2\theta_W$
 - 3 lepton masses
 - 6 quark masses
 - 4 quark flavor mixing parameters (CKM)
 - m(Higgs)
- 10 of these are related with "quark flavors"

i.e. we still don't know much about flavor sector in the SM after all these years of learning...

FPCP 2003

- I learned a lot from this beautifully organized conference, for which I thank all the members of LOC, IAC, and supporting staffs.
- What I can tell my friends at home
 - to my theorist friends: "at least I had a chance to learn what SCET is about..."
 - to my senior colleagues: "with $Ds^{(*)}$ π^{0} 's... now I too feel the excitement of facing unexpected experimental discoveries..."
- Of course, I learned lots more in other aspects of flavor physics, too.

Still we need more FPCP's for...

- BaBar/Belle discrepancies on $A_{CP}(t)$ in $B^0 \to \pi^+ \pi^-$
- $sin(2\phi_1)$ from $B^0 \rightarrow \phi K_S$, $\eta' K_S$, etc.
- Precision in V_{ub}
 - Improved L-QCD for B $\rightarrow \pi$ I ν form-factor
 - Full reconstruction technique
 - Belle/BaBar combined, expecting ~500/fb data
 - ~million fully reconstructed B's ?
- Seeing b→d penguin would be great, too!
- Of course, there are many others...

FPCP 2004 in Seoul, Korea

- During the FPCP 2002 in Philadelphia, Tony Sanda sent us (CSKim, SKKim, JSKang, and YJK) an email, suggesting FPCP2004 in Korea.
- LOC was formed in April 2003, during the KPS meeting at Yonsei Univ., and decided
- Date: Oct. 11 15 with a day off for excursion
- Place: somewhere in Seoul
 - Seoul is a big, modern citywith >1000 years of history...

Why October?

- LOC decided to have it after the major summer conferences (e.g. ICHEP at Beijing) rather than before
- To give enough time for everyone (esp. theorists) to digest the results
- By the way, October is the month of harvest festival in Korea and about the most comfortable time in a year

Seoul in October...



Still not decided (among many things)

- Conference site
 - University campus or a luxury hotel?
 - In any case, we will provide economical alternative for lodging



