ϕ_2/α Section in PBF

Theory editor: Icarus Bigi

Belle editor: Tagir Aushev

BaBar editor: Yury Kolomensky

4th Physics of the B-Factories Book Workshop

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Progress So Far

Tagir committed to SVN a few days ago, my revisions committed yesterday

Contributors

Theory section: I. Bigi

Experiments:

	$\pi^+\pi^-$	$\pi^0\pi^0$	$\pi\pi$,$K\pi$,KK	$(\rho\ \pi)^0$	$\rho^+\pi^0$	$\rho^+\rho^-$	$\rho^+\rho^0$	$\rho^0\rho^0$	$a_1^+\pi^-$
ϕ_2/Belle	K.Prothmann	Y.Chao	S.-W.Lin	A.Kusaka	J.Zhang	A.Somov	J.Zhang	C.-C.Chiang	J.Dalseno
α/BaBar	A.Telnov	A.Roodman	A.Telnov	M.Graham	F.Wilson	A.Bevan	W.Gary	G.Vasseur/ YGK	F.Palombo

Progress So Far

- First contributions from Tagir
  - Slowed by the earthquake
  - Received tarball from him on May 22
    - ☞ Based on Belle papers (a lot of recycled text)
  - I have been editing it (on and off) since
    - ☞ Added $a_1\pi$ section from Fernando Palombo
    - ☞ Edited intro to be a bit more general
    - ☞ Started going through the text

Editing

- My first thought was to simply split each section into "BaBar Analysis" and "Belle Analysis"
  - Simplest logistically
  - But boring to read
- So will go through with a more pedagogical approach
  - Will try to take out majority of "technical" details
    - ☞ Cuts and such will refer to original papers
  - Will try to make the text more generic, leave the common issues, and highlight the differences
- I will go through it once, and then will be ready to send the text to subsection editors for revisions

Issues

- No $\pi^+\pi^-$ section yet
  - Sasha Telnov committed to write – need to confirm
- Expect a number of "final" results to come
  - ☞ Belle $\varrho^+\varrho^0$ results based on 78/fb: is an update coming ?
  - ☞ BaBar expects to update $\varrho^+\varrho^-$ to 465M B decays
  - We have postponed any work on averages etc until these results are out
    - ☞ For $\pi\pi$ and $\varrho\varrho$ channels, will average BRs and S/C parameters, then run isospin analysis
    - ☞ For the $\varrho\pi$ channels, will probably have to add χ^2 profiles
- Icarus has not reviewed the theory section yet