

Where Are We? Where Are

data: (Update on B_d w/ K^{\pm})

We Going?
And Where were
we, anyhow?

A. Check, Check, Check

1. Efficiency + tags
2. LLK input \rightarrow output
3. Mini Fits.

B. Where are we going?

1. A few more fit checks
 Done! \checkmark no DH /boost resolution
 - old fit?
2. Determine systematic variances + roll code.

Where are we?

96-98 Fits

Data

MC

1-D

$.563 \pm .032$

$.497 \pm .017$

2-D Δm

$.576 \pm .035$

$.500 \pm .017$

LLK

$.819 \pm .023$

$.803 \pm .010$

Efficiency + tag Checks

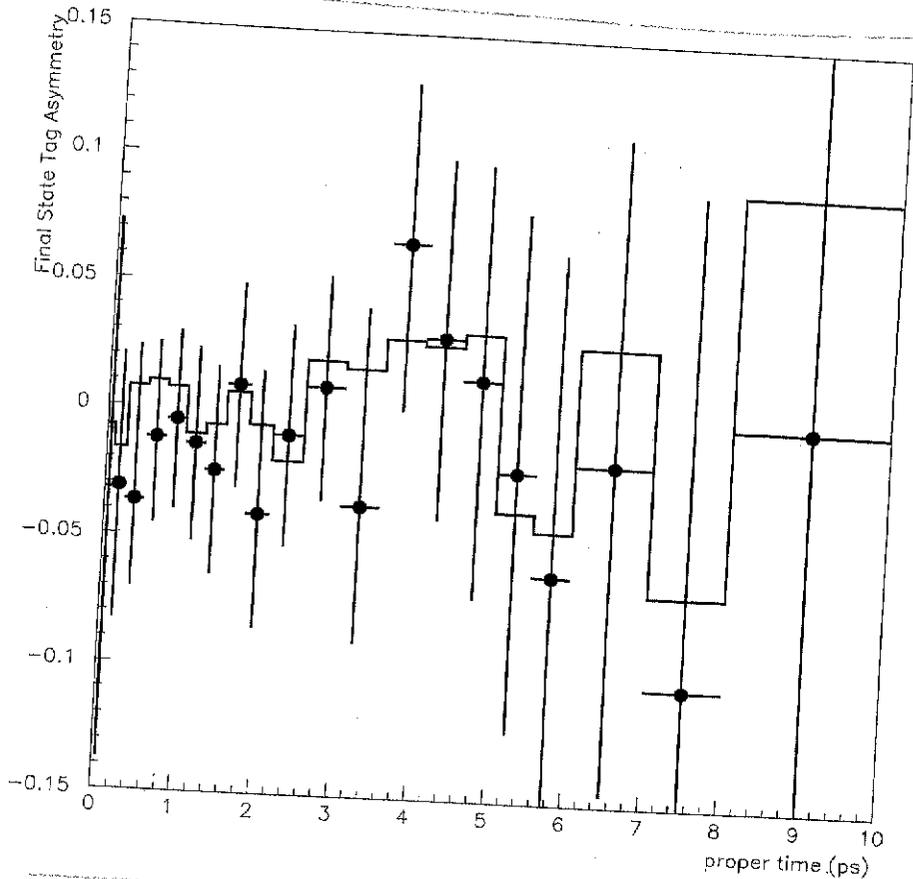
Efficiencies over time:

	mc (*e-2)	data (*e-2)
q6	2.360+- 3.45e-2	1.697+-6.31e-2
q7	2.520+-2.49e-2	1.892+-4.68e-2
wq8	2.570+-2.77e-2	1.939+-5.05e-2
S+Sq8	2.873+-2.87e-2	2.160+-4.40e-2

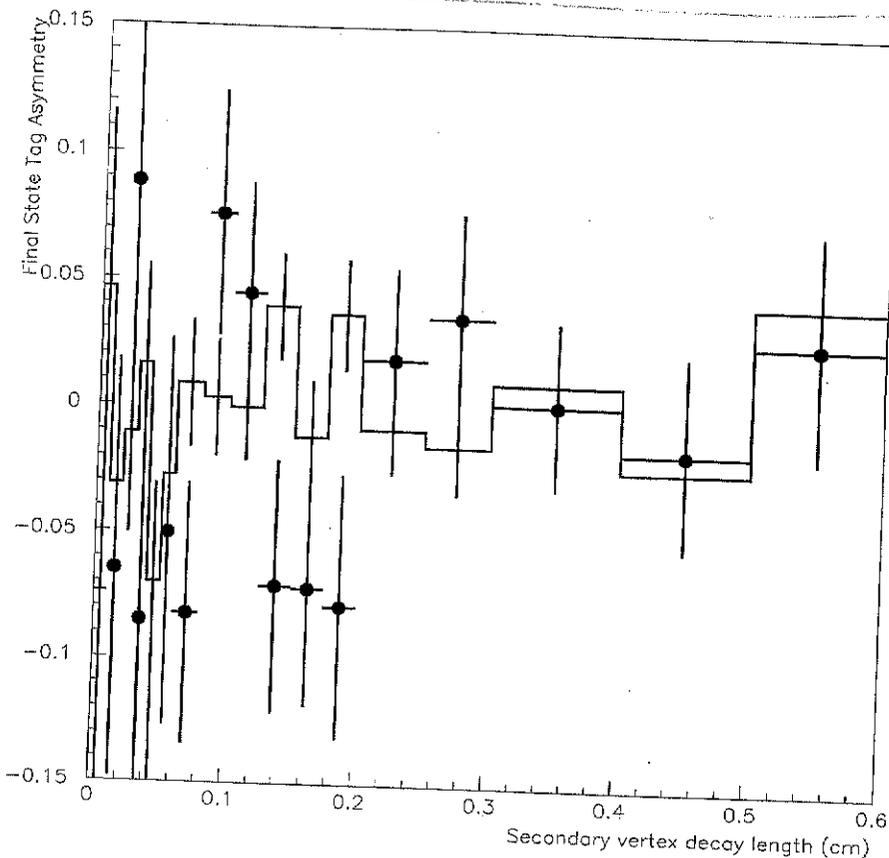
Tag distributions:

	mc $\pm .003$	data $\pm .007$
b quark ist	.497	.487
bbar ist	.503	.513
b quark fst	.502	.494
bbar fst	.498	.506

Final State Tag Asymmetry (or lack thereof!)



$$a_{FST} = \frac{\# \frac{b_{FST} - \bar{b}_{FST}}{b_{FST} + \bar{b}_{FST}}}{b_{FST} + \bar{b}_{FST}}$$



Fits and Pieces

	fraction in n-tuple ↓	fraction out of LLK ↓
for mc:	in	out
bu	.146 ± .002	.170
bd	.607 ± .003	.5659
bs	.170 ± .002	.1579
bary	.067 ± .001	.0777
udsc	.012 ± .0006	.028
for data:	in	out
bu	.145 ± .004	.1685
bd	.602 ± .007	.5578
bs	.149 ± .004	.149 ± .138
bary	.092 ± .002	.1067
udsc	.012 ± .001	.0290

Having Fits!

nothing reparameterized

	dmd	inc	rsf	dmd	data	rsf
Polster 1st only	.466+- .026		.783+- .014	.593+- .045		.800+- .031
q 1st only	.515+- .026		.827+- .017	.559+- .057		.802+- .039
cos $\theta > 0$.513+- .023		.803+- .015	.607+- .054		.819+- .033
cos $\theta < 0$.486+- .024		.801+- .015	.536+- .046		.820+- .033
cos $\theta < 0$ \checkmark	.501+- .016		.802+- .011	.560+- .034		.817+- .024
cos $\theta < 0$ \checkmark	.492+- .016		.807+- .010	.569+- .033		.826+- .023
cos $\theta < 0$ \checkmark	.490+- .016		.803+- .010	.575+- .036		.820+- .023
no vx alkene	.508+- .019		.806+- .011	.562+- .036		.813+- .026
b FST only	.488+- .026		.791+- .015	.560+- .053		.816+- .034
T FST only	.509+- .023		.813+- .014	.579+- .051		.822+- .033
Nominal	.500+- .017		.803+- .010	.570+- .035		.819+- .023

(Reparam)

Tertiary K's only

.521 ± .024

.811 ± .014

.539 ± .043

.831 ± .014

no resolution inc.

.472 ± .014

.778 ± .01

.495 ± .032

.779 ± .021

WME