## B-particle organization

Many measurements of B decays involve admixtures of B hadrons. Previously we arbitrarily included such admixtures in the  $B^\pm$  section, but because of their importance we have created two new sections: " $B^\pm/B^0$  Admixture" for  $\Upsilon(4S)$  results and " $B^\pm/B^0/B_s^0/b$ -baryon Admixture" for results at higher energies. Most inclusive decay branching fractions and  $\chi_b$  at high energy are found in the Admixture sections.  $B^0-\overline{B}^0$  mixing data are found in the  $B^0$  section, while  $B_s^0-\overline{B}_s^0$  mixing data and  $B-\overline{B}$  mixing data for a  $B^0/B_s^0$  admixture are found in the  $B_s^0$  section. CP-violation data are found in the  $B^\pm$ ,  $B^0$ , and  $B^\pm$   $B^0$  Admixture sections. b-baryons are found near the end of the Baryon section. Recently, we also created a new section: " $V_{C,D}$  and  $V_{U,D}$  CKM Matrix Elements."

The organization of the B sections is now as follows, where bullets indicate particle sections and brackets indicate reviews.

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[Production and Decay of b-flavored Hadrons]
[A Short Note on HFAG Activities]
• B<sup>±</sup>
    mass, mean life
    branching fractions
    polarization in B^{\pm} decay
    CP violation
• B<sup>0</sup>
    mass, mean life
    branching fractions
    [Polarization in B decay]
    polarization in B^0 decay
    [B-\overline{B}] Mixing
    B^0 - \overline{B}^0 mixing
    CP violation
• B^{\pm} B^{0} Admixture
    branching fractions, CP violation
    CP violation
• B^{\pm}/B^{0}/B_{s}^{0}/b-baryon Admixture
    mean life
    production fractions
    branching fractions
    \chi_b at high energy
    production fractions in hadronic Z decay
\bullet V_{c\,b} and V_{u\,b} CKM Matrix Elements
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## [Determination of $V_{c\,b}$ and $V_{u\,b}$ ]

 B\* •  $B_1(5721)^0$ mass • B\*<sub>1</sub>(5732) mass, width •  $B_2(5747)^0$ mass  $\bullet B_s^0$ mass, mean life branching fractions polarization in  $B_s^0$  decay  $B_s^0 - \overline{B}_s^0$  mixing  $\bullet B_s^*$ mass •  $B_{sJ}^*$  (5850) mass, width  $\bullet B_c^{\pm}$ mass, mean life branching fractions

At the end of Baryon Listings:

- $\Lambda_b$  mass, mean life branching fractions  $\Sigma_b$ ,  $\Sigma_b^*$
- mass  $\bullet \equiv_b^0, \equiv_b^-$ mean life
- $\begin{array}{c} \bullet \ \Omega_b^- \\ \\ \text{mass, mean life} \\ \\ \text{branching fractions} \end{array}$
- b-baryon Admixture mean life branching fractions

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