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 χ_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: " $V_{C\,b}$ and $V_{II\,b}$ CKM Matrix Elements."

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

```
[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
\bullet B^0
    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
    [Determination of V_{cb} and V_{ub}]
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    B*

                 mass
           • B_1(5721)^0
                 mass
           • B_J^*(5732)
                 mass, width
           \bullet 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
                 mass
           \bullet \, B_{sJ}^*(5850)
                 mass, width
                 mass, mean life
                 branching fractions
At the end of Baryon Listings:

    Λ<sub>b</sub>

                 mass, mean life
                branching fractions
           • \Sigma_b, \Sigma_b^*
           \bullet \; \Xi_b^0, \; \Xi_b^-
                 mean life
           \bullet \Omega_b^-
                 mass, mean life
```

branching fractionsb-baryon Admixture mean life

branching fractions

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