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_{cb} and $V_{\mu b}$ 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^0_s/b-baryon Admixture
     mean life
     production fractions
     branching fractions
    \chi_{b} at high energy
     production fractions in hadronic Z decay
• V<sub>c b</sub> and V<sub>u b</sub> 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
• $B_2(5747)^0$
mass
• B_s^0
mass, mean life
branching fractions
polarization in B_s^0 decay
 $B_s^0 - \overline{B}_s^0$ mixing
• B_s^*
mass
• $B_{sJ}^*(5850)$
mass, width
• B_c^{\pm}
mass, mean life
branching fractions

At the end of Baryon Listings:

• Λ_b mass, mean life branching fractions

•
$$\Sigma_b$$
, Σ_b^*
mass
• Ξ_b^0 , Ξ_b^-

mean life

• Ω_b^-

mass, mean life branching fractions

• *b*-baryon Admixture mean life branching fractions

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