B-particle organization

NODE=S741

NODE=S741205

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 "$B^{\pm}/B^0/B^0_s$/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^0_s-$\overline{B}^0_s$ mixing data and B-$\overline{B}$ mixing data for a B^0/B^0_s admixture are found in the B^0_s 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_{ub} CKM Matrix Elements."

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

NODE=S741205
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[Production and Decay of b-flavored Hadrons]

[A Short Note on HFLAV Activities]

- $B^{\pm}$
  - mass, mean life
  - branching fractions
  - polarization in $B^{\pm}$ decay
  - CP violation
- 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
- $B^{\pm}/B^0/B^0_s$/b-baryon Admixture
  - mean life
  - production fractions
  - branching fractions
  - χ_b at high energy
  - production fractions in hadronic Z decay
- V_{cb} and V_{ub} CKM Matrix Elements
  - [Determination of V_{cb} and V_{ub}]

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NODE=S741310

- B^*, $B_1(5721)$, $B^*_J(5732)$, $B^*_2(5747)$, $B_J(5840)$, $B_J(5970)$
  - mass, width, branching fracions
- B^0_s
  - mass, mean life
  - branching fractions
  - polarization in B^0_s decay
  - B^0_s-$\overline{B}^0_s$ mixing
- B^*_s, $B_{s1}(5830)^0$, $B^*_{s2}(5840)^0$, $B^*_{sJ}(5850)$, $B_{sJ}(6063)^0$, $B_{sJ}(6114)^0$
  - mass, width, branching fractions
- $B^{\pm}_c$
  - mass, mean life
  - branching fractions
- $B_c(2S)^{\pm}$

mass, branching fractions

NODE=S741310
NODE=S741315

At the end of Baryon Listings:

- Λ_b
  - mass, mean life
  - branching fractions
- $\Lambda_b(5912)^0$, $\Lambda_b(5920)^0$, $\Lambda_b(6070)^0$, $\Lambda_b(6146)^0$, $\Lambda_b(6152)^0$
  - mass, width, branchibg fractions
- Σ_b
  - mass, width, branching fractions
- Σ_b^*, $\Sigma_b(6097)^+$, $\Sigma_b(6097)^-$
  - mass, width, branching fractions
- Ξ_b^0, Ξ_b^-
  - mass, mean life
  - branching fractions, P, CP violation
- $\Xi'_b(5935)^-$, $\Xi_b(5945)^0$, $\Xi_b(5955)^-$, $\Xi_b(6100)^-$, $\Xi_b(6227)^-$, $\Xi_b(6227)^0$, $\Xi_b(6327)^0$, $\Xi_b(6333)^0$
  - mass, width, branching fractions
- Ω_b^-
  - mass, mean life
  - branching fractions
- $\Omega_b(6316)^-$, $\Omega_b(6330)^-$, $\Omega_b(6340)^-$, $\Omega_b(6350)^-$
  - mass, width, branching fractions
- b-baryon Admixture
  - mean life
  - branching fractions

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