

# Testing hepparticles

Generated by buckley

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## 1 Sub- and super-script alignment

### 1.1 Concrete names

#### 1.1.1 Normal

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B	$\bar{B}$	$\tilde{B}$	$\overline{\tilde{B}}$
$B_d$	$\bar{B}_d$	$\tilde{B}_d$	$\overline{\tilde{B}_d}$
$B^0$	$\bar{B}^0$	$\tilde{B}^0$	$\overline{\tilde{B}^0}$
$B_d^0$	$\bar{B}_d^0$	$\tilde{B}_d^0$	$\overline{\tilde{B}_d^0}$

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#### 1.1.2 Italic

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<i>B</i>	$\bar{B}$	$\tilde{B}$	$\overline{\tilde{B}}$
<i>B<sub>d</sub></i>	$\bar{B}_d$	$\tilde{B}_d$	$\overline{\tilde{B}_d}$
<i>B<sup>0</sup></i>	$\bar{B}^0$	$\tilde{B}^0$	$\overline{\tilde{B}^0}$
<i>B<sub>d</sub><sup>0</sup></i>	$\bar{B}_d^0$	$\tilde{B}_d^0$	$\overline{\tilde{B}_d^0}$

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#### 1.1.3 Bold

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<b>B</b>	$\bar{B}$	$\tilde{B}$	$\overline{\tilde{B}}$
<b>B<sub>d</sub></b>	$\bar{B}_d$	$\tilde{B}_d$	$\overline{\tilde{B}_d}$
<b>B<sup>0</sup></b>	$\bar{B}^0$	$\tilde{B}^0$	$\overline{\tilde{B}^0}$
<b>B<sub>d</sub><sup>0</sup></b>	$\bar{B}_d^0$	$\tilde{B}_d^0$	$\overline{\tilde{B}_d^0}$

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#### 1.1.4 Bold italic

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<b><i>B</i></b>	<b><i><math>\bar{B}</math></i></b>	<b><i><math>\tilde{B}</math></i></b>	<b><i><math>\widetilde{B}</math></i></b>
<b><i>B<sub>d</sub></i></b>	<b><i><math>\bar{B}_d</math></i></b>	<b><i><math>\tilde{B}_d</math></i></b>	<b><i><math>\widetilde{B}_d</math></i></b>
<b><i>B<sup>0</sup></i></b>	<b><i><math>\bar{B}^0</math></i></b>	<b><i><math>\tilde{B}^0</math></i></b>	<b><i><math>\widetilde{B}^0</math></i></b>
<b><i>B<sub>d</sub><sup>0</sup></i></b>	<b><i><math>\bar{B}_d^0</math></i></b>	<b><i><math>\tilde{B}_d^0</math></i></b>	<b><i><math>\widetilde{B}_d^0</math></i></b>

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## 1.2 Generic names

### 1.2.1 Normal

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<i>B</i>	<i><math>\bar{B}</math></i>	<i><math>\tilde{B}</math></i>	<i><math>\widetilde{B}</math></i>
<i>B<sub>d</sub></i>	<i><math>\bar{B}_d</math></i>	<i><math>\tilde{B}_d</math></i>	<i><math>\widetilde{B}_d</math></i>
<i>B<sup>0</sup></i>	<i><math>\bar{B}^0</math></i>	<i><math>\tilde{B}^0</math></i>	<i><math>\widetilde{B}^0</math></i>
<i>B<sub>d</sub><sup>0</sup></i>	<i><math>\bar{B}_d^0</math></i>	<i><math>\tilde{B}_d^0</math></i>	<i><math>\widetilde{B}_d^0</math></i>

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### 1.2.2 Italic

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<i>B</i>	<i><math>\bar{B}</math></i>	<i><math>\tilde{B}</math></i>	<i><math>\widetilde{B}</math></i>
<i>B<sub>d</sub></i>	<i><math>\bar{B}_d</math></i>	<i><math>\tilde{B}_d</math></i>	<i><math>\widetilde{B}_d</math></i>
<i>B<sup>0</sup></i>	<i><math>\bar{B}^0</math></i>	<i><math>\tilde{B}^0</math></i>	<i><math>\widetilde{B}^0</math></i>
<i>B<sub>d</sub><sup>0</sup></i>	<i><math>\bar{B}_d^0</math></i>	<i><math>\tilde{B}_d^0</math></i>	<i><math>\widetilde{B}_d^0</math></i>

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### 1.2.3 Bold

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<b><i>B</i></b>	<b><i><math>\bar{B}</math></i></b>	<b><i><math>\tilde{B}</math></i></b>	<b><i><math>\widetilde{B}</math></i></b>
<b><i>B<sub>d</sub></i></b>	<b><i><math>\bar{B}_d</math></i></b>	<b><i><math>\tilde{B}_d</math></i></b>	<b><i><math>\widetilde{B}_d</math></i></b>
<b><i>B<sup>0</sup></i></b>	<b><i><math>\bar{B}^0</math></i></b>	<b><i><math>\tilde{B}^0</math></i></b>	<b><i><math>\widetilde{B}^0</math></i></b>
<b><i>B<sub>d</sub><sup>0</sup></i></b>	<b><i><math>\bar{B}_d^0</math></i></b>	<b><i><math>\tilde{B}_d^0</math></i></b>	<b><i><math>\widetilde{B}_d^0</math></i></b>

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#### 1.2.4 Bold italic

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$B$	$\bar{B}$	$\tilde{B}$	$\overline{\tilde{B}}$
$B_d$	$\bar{B}_d$	$\tilde{B}_d$	$\overline{\tilde{B}_d}$
$B^0$	$\bar{B}^0$	$\tilde{B}^0$	$\overline{\tilde{B}^0}$
$B_d^0$	$\bar{B}_d^0$	$\tilde{B}_d^0$	$\overline{\tilde{B}_d^0}$

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## 2 Processes

$$B_d^0 \rightarrow K_S^0 \pi^0$$

$$B_d^0 \rightarrow K_S^0 \pi^0$$

## 3 Resonances

$$B_d^0(1234)_1^*$$

$$B_d^0(1234)_1^* P_{11}^\pm$$

$$B_d^0(1234)_1^*$$

$$B_d^0(1234)_1^* P_{11}^\pm$$

## 4 Mixed concrete and generic

Using math sub/super-scripts:

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$B_i$	$B^j$	$B_i^j$
$B_{d_i}$	$B_d^j$	$B_{d_i}^j$
$B_i^0$	$B^{0j}$	$B_i^{0j}$
$B_{d_i}^0$	$B_d^{0j}$	$B_{d_i}^{0j}$

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$B_i$	$B^j$	$B_i^j$
$B_{d_i}$	$B_d^j$	$B_{d_i}^j$
$B_i^0$	$B^{0j}$	$B_i^{0j}$
$B_{d_i}^0$	$B_d^{0j}$	$B_{d_i}^{0j}$

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Using generic particle with concrete particle in first argument:

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$B_i$	$B^j$	$B_i^j$
$B_i^0$	$B_d^j$	

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## 5 Integration with text

**This is a B.**

**This is a B.**

**This is a B particle**

**This is a B particle**

**This is a  $B_u^+$  particle**

**This is a  $B^0$  particle**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin fringilla, wisi eget aliquet tempor, risus tellus luctus est, ac accumsan pede enim vehicula tortor. Nulla  $B^0$  scelerisque placerat enim. Nullam aliquet lorem eget augue. Nullam semper feugiat neque. Nam aliquet iaculis ante. Fusce ac mi.  $\bar{B}^0$  pellentesque sed ante. Maecenas consectetur porta dolor. Pellentesque enim. Mauris augue orci, suscipit a, vestibulum nec,  $\tilde{B}^0$  congue ac, elit. Donec lectus dui, molestie sed, molestie sed, sollicitudin nec, justo. Morbi portitor odio at urna. Nam bibendum dui tempor lectus. Phasellus  $\tilde{\bar{B}}^0$  portitor vehicula sem. Sed a elit.

In volutpat. Sed quis arcu. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos  $q^d$  hymenaeos. Aenean vitae wisi. Praesent condimentum iaculis est. Praesent consectetur est non erat. Fusce eget erat at arcu pretium condimentum. Aliquam  $\bar{\ell}^+$  mauris dui, tincidunt eget, iaculis id, hendrerit non, lacus. Integer et odio ut arcu sollicitudin nonummy. Vestibulum vel orci cursus sapien luctus  $\tilde{q}$  sagittis. Curabitur mollis eros id nunc. Fusce risus quam, molestie at, bibendum sed, sodales at, urna. In hac habitasse platea  $\tilde{\chi}^0$  dictumst.

## 6 Testing sans-serif

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin fringilla, wisi eget aliquet tempor, risus tellus luctus est, ac accumsan pede enim vehicula tortor. Nulla  $B^0$  scelerisque placerat enim. Nullam aliquet lorem eget augue.

Nullam semper feugiat neque. Nam aliquet iaculis ante. Fusce ac mi.  $\bar{B}^0$  pellentesque sed ante. Maecenas consetetur porta dolor. Pellentesque enim. Mauris augue orci, suscipit a, vestibulum nec,  $\tilde{B}^0$  congue ac, elit. Donec lectus dui, molestie sed, molestie sed, sollicitudin nec, justo. Morbi porttitor odio at urna. Nam bibendum dui tempor lectus. Phasellus  $\tilde{\tilde{B}}^0$  porttitor vehicula sem. Sed a elit. In volutpat. Sed quis arcu. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos  $B^0$  hymenaeos. Aenean vitae wisi. Praesent condimentum iaculis est. Praesent consetetur est non erat. Fusce eget erat at arcu pretium condimentum. Aliquam  $\bar{B}^0$  mauris dui, tincidunt eget, iaculis id, hendrerit non, lacus. Integer et odio ut arcu sollicitudin nonummy. Vestibulum vel orci cursus sapien luctus  $\tilde{B}^0$  sagittis. Curabitur mollis eros id nunc. Fusce risus quam, molestie at, bibendum sed, sodales at, urna. In hac habitasse platea  $\tilde{\tilde{B}}^0$  dictumst.