

## Encoding rescaled/product type values

- Branching fraction from **any measurement combination** can be encoded to dynamically adjust with the current best values

$BR(\text{report}) * BR(\text{known}) = M$  (measurement)

Encoding  $BR(\text{report})$ :

$br\_adjust: M; *, \dots, \text{Location}[BR(\text{known})]$

br\_adjust: **0.211+-0.030 +- 0.014 E-5;**  
**\*, ADJUST, M049 1**

$\Gamma(\Upsilon(1S)\pi^+\pi^-)/\Gamma_{\text{total}}$   $\Gamma_{17}/\Gamma$

<u>VALUE (units <math>10^{-5}</math>)</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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**8.1±0.6 OUR AVERAGE**

8.5±1.3±0.2	113 ± 16	19	SOKOLOV 09	BELL	$e^+e^- \rightarrow \pi^+\pi^-\mu^+\mu^-$
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• • • We do not use the following data for averages, fits, limits, etc. • • •

<12	90		GLENN 99	CLE2	$e^+e^-$
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<sup>19</sup>SOKOLOV 09 reports  $[\Gamma(\Upsilon(4S) \rightarrow \Upsilon(1S)\pi^+\pi^-)/\Gamma_{\text{total}}] \times [B(\Upsilon(1S) \rightarrow \mu^+\mu^-)] = (0.211 \pm 0.030 \pm 0.014) \times 10^{-5}$  which we divide by our best value  $B(\Upsilon(1S) \rightarrow \mu^+\mu^-) = (2.48 \pm 0.05) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.

br\_adjust: **5.1 +-0.5 +-0.6 E-4;**

**\*, 9.33 +-0.14 +-0.61 E-2, M071 59**

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$					$\Gamma_{23}/\Gamma$
<i>VALUE</i> (units $10^{-4}$ )	<i>EVTS</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	
<b>5.4±0.7±0.2</b>	156± 14	<sup>35</sup> ASNER	09	CLEO	$\psi(2S) \rightarrow \gamma\eta\eta$

<sup>35</sup> ASNER 09 reports  $(5.1 \pm 0.5 \pm 0.6) \times 10^{-4}$  from a measurement of  $[\Gamma(\chi_{c2}(1P) \rightarrow \eta\eta)/\Gamma_{\text{total}}] \times [B(\psi(2S) \rightarrow \gamma\chi_{c2}(1P))]$  assuming  $B(\psi(2S) \rightarrow \gamma\chi_{c2}(1P)) = (9.33 \pm 0.14 \pm 0.61) \times 10^{-2}$ , which we rescale to our best value  $B(\psi(2S) \rightarrow \gamma\chi_{c2}(1P)) = (8.74 \pm 0.35) \times 10^{-2}$ . Our first error is their experiment's error and our second error is the systematic error from using our best value.