



FIG. 2: Determination of  $\Phi_{B_s}^{\text{ren}}/\Phi_{B_l}^{\text{ren}}$  using the average of two time sources on the three sea quark ensembles. The blue (triangle) points denote the APE data, while the red (square) points denote the HYP-smearred data. The shaded (hatched) band corresponds to the plateau extracted from averaging the APE (HYP) data over four consecutive time slices. Errors shown are statistical only.

Eq. (59), while the box-box two-point functions are given by

$$\mathcal{C}^{BB}(t, t_0) = \langle 0 | A_0^B(t) A_0^B(t_0)^\dagger | 0 \rangle, \quad (67)$$

with

$$A_0^B(t) = a^6 \sum_{\vec{x}, \vec{y} \in \Delta V} \left( \bar{h}^{(+)}(\vec{x}, t) \gamma_0 \gamma_5 q(\vec{y}, t) + \bar{h}^{(-)}(\vec{x}, t) \gamma_0 \gamma_5 q(\vec{y}, t) \right), \quad (68)$$

where the superscript  $B$  denotes a box source in the region  $\Delta V$ . We also compute the