

| Mode                            | BDT bin         | 0.0 – 0.25                | 0.25 – 0.4                | 0.4 – 0.5                 | 0.5 – 0.6                 | 0.6 – 0.7                 | 0.7 – 0.8                 | 0.8 – 0.9                 | 0.9 – 1.0                 |
|---------------------------------|-----------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| $B_s^0 \rightarrow \mu^+ \mu^-$ | Exp. comb. bkg  | $1889^{+38}_{-39}$        | $57^{+11}_{-11}$          | $15.3^{+3.8}_{-3.8}$      | $4.3^{+1.0}_{-1.0}$       | $3.30^{+0.92}_{-0.85}$    | $1.06^{+0.51}_{-0.46}$    | $1.27^{+0.53}_{-0.52}$    | $0.44^{+0.41}_{-0.24}$    |
|                                 | Exp. peak. bkg  | $0.124^{+0.066}_{-0.049}$ | $0.063^{+0.024}_{-0.018}$ | $0.049^{+0.016}_{-0.012}$ | $0.045^{+0.016}_{-0.012}$ | $0.050^{+0.018}_{-0.013}$ | $0.047^{+0.017}_{-0.013}$ | $0.049^{+0.017}_{-0.013}$ | $0.047^{+0.018}_{-0.014}$ |
|                                 | Exp. signal     | $2.55^{+0.70}_{-0.74}$    | $1.22^{+0.20}_{-0.19}$    | $0.97^{+0.14}_{-0.13}$    | $0.861^{+0.102}_{-0.088}$ | $1.00^{+0.12}_{-0.10}$    | $1.034^{+0.109}_{-0.095}$ | $1.18^{+0.13}_{-0.11}$    | $1.23^{+0.21}_{-0.21}$    |
|                                 | Observed        | 1818                      | 39                        | 12                        | 6                         | 1                         | 2                         | 1                         | 1                         |
| $B^0 \rightarrow \mu^+ \mu^-$   | Exp. comb. bkg  | $2003^{+42}_{-43}$        | $61^{+12}_{-11}$          | $16.6^{+4.3}_{-4.1}$      | $4.7^{+1.3}_{-1.2}$       | $3.52^{+1.13}_{-0.97}$    | $1.11^{+0.71}_{-0.50}$    | $1.62^{+0.76}_{-0.59}$    | $0.54^{+0.53}_{-0.29}$    |
|                                 | Exp. peak. bkg  | $0.71^{+0.36}_{-0.26}$    | $0.355^{+0.146}_{-0.088}$ | $0.279^{+0.110}_{-0.068}$ | $0.249^{+0.099}_{-0.055}$ | $0.280^{+0.109}_{-0.062}$ | $0.264^{+0.103}_{-0.057}$ | $0.275^{+0.108}_{-0.060}$ | $0.267^{+0.106}_{-0.069}$ |
|                                 | Exp. cross-feed | $0.40^{+0.11}_{-0.12}$    | $0.193^{+0.033}_{-0.030}$ | $0.153^{+0.023}_{-0.021}$ | $0.136^{+0.017}_{-0.015}$ | $0.158^{+0.019}_{-0.017}$ | $0.164^{+0.019}_{-0.017}$ | $0.187^{+0.022}_{-0.020}$ | $0.194^{+0.036}_{-0.033}$ |
|                                 | Exp. signal     | $0.300^{+0.086}_{-0.090}$ | $0.145^{+0.027}_{-0.024}$ | $0.115^{+0.020}_{-0.017}$ | $0.102^{+0.014}_{-0.013}$ | $0.119^{+0.017}_{-0.015}$ | $0.123^{+0.016}_{-0.015}$ | $0.140^{+0.019}_{-0.017}$ | $0.145^{+0.030}_{-0.026}$ |
| Observed                        |                 | 1904                      | 50                        | 20                        | 5                         | 2                         | 1                         | 4                         | 1                         |