

Table 5: Lattice results for heavy-light mesons (static approximation). Values for the ground state energy aE_1 and decay constant \tilde{f}_B are extracted from a 2-state fit over time window ΔT . (\tilde{f}_B is related to the physical decay constant f_B by Eq. (30)). Results at $\kappa = \kappa_c$ are from the multi- κ fits as discussed in Sec. 3.2. The column labeled *overlap* is a measure of the total overlap between the true ground state and the RQM wavefunction smeared operators used.

β	ΔT	κ	aE_1	<i>overlap</i>	\tilde{f}_B	χ^2/dof
5.7	2-8	.161	.827(6)	.725(7)	.670(19)	.50
		.165	.794(8)	.717(8)	.626(23)	.78
		.1667	.776(9)	.699(7)	.590(24)	.54
		.168	.767(11)	.694(9)	.578(29)	.43
		κ_c	.758(10)	.694(8)	.564(28)	.58
5.9	3-10	.154	.719(5)	.742(12)	.347(11)	.87
		.156	.692(8)	.731(13)	.318(13)	1.06
		.157	.678(6)	.724(13)	.300(11)	.62
		.158	.665(7)	.716(15)	.283(12)	.56
		.159	.645(9)	.704(18)	.259(14)	.60
		κ_c	.638(9)	.686(24)	.250(14)	.66
6.1	4-12	.151	.620(7)	.769(17)	.199(10)	.57
		.153	.583(9)	.721(24)	.170(12)	.60
		.154	.561(11)	.705(24)	.149(12)	.61
		.1545	.551(13)	.700(30)	.142(14)	.48
		κ_c	.544(12)	.689(25)	.135(13)	.55
6.3	5-14	.1500	.528(7)	.748(18)	.120(7)	.72
		.1510	.511(7)	.728(20)	.107(7)	.66
		.1513	.506(8)	.724(20)	.104(7)	.61
		.1515	.504(8)	.729(20)	.103(8)	.56
		κ_c	.499(9)	.720(17)	.099(8)	.62