

TABLE I: Predicted spectra of pentaquarks $bbbb\bar{b}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$bbbb\bar{b}$	$3/2^-$	3.48	24.761	-0.08
	$1/2^-$	3.53	24.770	-0.14

TABLE II: Predicted spectra of pentaquarks $bbbb\bar{b}$.

State	J^P	M_{bag}	Threshold
$bbbb\bar{b}$	$3/2^-$	24.761	$\Omega_{bbb}\Upsilon(24.086)$, $\Omega_{bbb}\eta_b(24.025)$
	$1/2^-$	24.770	$\Omega_{bbb}\Upsilon(24.086)$

TABLE III: Predicted spectra of pentaquarks $bbbb\bar{c}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$bbbb\bar{c}$	$3/2^-$	3.89	21.472	-0.65
	$1/2^-$	3.96	21.491	0.05

TABLE IV: Predicted spectra of pentaquarks $bbbb\bar{c}$.

State	J^P	M_{bag}	Threshold
$bbbb\bar{c}$	$3/2^-$	21.472	$\Omega_{bbb}B_c^*(20.958)$, $\Omega_{bbb}B_c(20.900)$
	$1/2^-$	21.491	$\Omega_{bbb}B_c^*(20.958)$

TABLE V: Predicted spectra of pentaquarks $bbbc\bar{b}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$bbbc\bar{b}$	$5/2^-$	3.92	21.480	0.31
		3.93	21.484	0.13
		3.90	21.475	0.35
		3.80	21.451	-0.21
	$1/2^-$	3.97	21.493	-0.03
		3.89	21.472	0.06
		3.84	21.461	-0.05

TABLE VI: Predicted spectra of pentaquarks $bbbc\bar{b}$.

State	J^P	M_{bag}	Threshold
$bbbc\bar{b}$	$5/2^-$	21.480	$\Omega_{cbb}^* \Upsilon(20.862), \Omega_{bbb} B_c^*(20.958)$
		21.484	$\Omega_{cbb}^* \Upsilon(20.862), \Omega_{cbb}^* \eta_b(20.801), \Omega_{cbb} \Upsilon(20.833), \Omega_{bbb} B_c^*(20.958), \Omega_{bbb} B_c(20.900)$
	$3/2^-$	21.475	
		21.451	
		21.493	$\Omega_{cbb}^* \Upsilon(20.862), \Omega_{cbb} \Upsilon(20.833), \Omega_{cbb} \eta_b(20.772), \Omega_{bbb} B_c^*(20.958)$
		21.472	
		21.461	
	$1/2^-$		

TABLE VII: Predicted spectra of pentaquarks $bbbc\bar{c}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$bbbc\bar{c}$	$5/2^-$	4.28	18.183	-0.26
		4.26	18.180	-0.27
	$3/2^-$	4.23	18.171	0.05
		4.16	18.149	-0.30
		4.32	18.198	0.16
		4.25	18.177	0.16
	$1/2^-$	4.18	18.159	-0.52

TABLE VIII: Predicted spectra of pentaquarks $bbbc\bar{c}$.

State	J^P	M_{bag}	Threshold
$bbbc\bar{c}$	$5/2^-$	18.183	$\Omega_{cbb}^* B_c^*(17.734), \Omega_{bbb} J/\psi(17.723)$
		18.180	$\Omega_{cbb}^* B_c^*(17.734), \Omega_{cbb}^* B_c(17.676), \Omega_{cbb} B_c^*(17.705), \Omega_{bbb} J/\psi(17.723), \Omega_{bbb} \eta_c(17.610)$
	$3/2^-$	18.171	
		18.149	
		18.198	$\Omega_{cbb}^* B_c^*(17.734), \Omega_{cbb} B_c^*(17.705), \Omega_{cbb} B_c(17.647), \Omega_{bbb} J/\psi(17.723)$
		18.177	
		18.159	
	$1/2^-$		

TABLE IX: Predicted spectra of pentaquarks $ccbb\bar{b}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$ccbb\bar{b}$	$5/2^-$	4.27	18.182	0.88
		4.29	18.191	0.28
	$3/2^-$	4.26	18.181	0.65
		4.22	18.170	0.65
		4.20	18.164	0.54
		4.32	18.200	0.08
	$1/2^-$	4.26	18.180	0.37
		4.22	18.168	0.41
		4.16	18.154	-0.06

TABLE X: Predicted spectra of pentaquarks $ccbb\bar{b}$.

State	J^P	M_{bag}	
$ccbb\bar{b}$	$5/2^-$	18.182	$\Omega_{ccb}^* B_c^*(17.734), \Omega_{ccb}^* \Upsilon(17.593)$
		18.191	$\Omega_{ccb}^* B_c^*(17.734), \Omega_{ccb}^* B_c(17.676), \Omega_{ccb}^* B_c^*(17.705), \Omega_{ccb}^* \Upsilon(17.593), \Omega_{ccb}^* \eta_b(17.532), \Omega_{ccb}^* \Upsilon(17.572)$
	$3/2^-$	18.181	
		18.170	
		18.164	
		18.200	$\Omega_{ccb}^* B_c^*(17.734), \Omega_{ccb}^* B_c^*(17.705), \Omega_{ccb}^* B_c(17.647), \Omega_{ccb}^* \Upsilon(17.593), \Omega_{ccb}^* \eta_b(17.532), \Omega_{ccb}^* \Upsilon(17.572)$
	$1/2^-$	18.180	
		18.168	
		18.154	

TABLE XI: Predicted spectra of pentaquarks $ccbb\bar{c}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$ccbb\bar{c}$	$5/2^-$	4.55	14.872	0.32
		4.57	14.880	-0.01
	$3/2^-$	4.52	14.866	0.17
		4.51	14.862	0.24
		4.41	14.828	0.36
		4.61	14.893	0.26
	$1/2^-$	4.55	14.875	0.31
		4.48	14.852	0.31
		4.39	14.821	-0.07

TABLE XII: Predicted spectra of pentaquarks $ccbb\bar{c}$.

State	J^P	M_{bag}	Threshold
$ccbb\bar{c}$	$5/2^-$	14.872	$\Omega_{ccb}^* B_c^*(14.465), \Omega_{ccb}^* J/\psi(14.499)$
		14.880	$\Omega_{ccb}^* B_c^*(14.465), \Omega_{ccb}^* B_c(14.407), \Omega_{ccb}^* B_c^*(14.444), \Omega_{ccb}^* J/\psi(14.499), \Omega_{ccb}^* \eta_c(14.386), \Omega_{ccb}^* J/\psi(14.470)$
	$3/2^-$	14.866	
		14.862	
		14.828	
		14.893	$\Omega_{ccb}^* B_c^*(14.465), \Omega_{ccb}^* B_c^*(14.444), \Omega_{ccb}^* B_c(14.386), \Omega_{ccb}^* J/\psi(14.499), \Omega_{ccb}^* J/\psi(14.470), \Omega_{ccb}^* \eta_c(14.357)$
	$1/2^-$	14.875	
		14.852	
		14.821	

TABLE XIII: Predicted spectra of pentaquarks $cccb\bar{b}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$cccb\bar{b}$	$5/2^-$	4.56	14.873	1.47
		4.58	14.885	0.65
	$3/2^-$	4.56	14.873	1.08
		4.52	14.862	1.31
		4.61	14.895	0.27
		4.56	14.878	0.26
	$1/2^-$	4.51	14.862	0.62

TABLE XIV: Predicted spectra of pentaquarks $cccb\bar{b}$.

State	J^P	M_{bag}	Threshold
$cccb\bar{b}$	$5/2^-$	14.873	$\Omega_{ccb}^* B_c^*(14.465), \Omega_{ccc} \Upsilon(14.301)$
		14.885	$\Omega_{ccb}^* B_c^*(14.465), \Omega_{ccb}^* B_c(14.407), \Omega_{ccb} B_c^*(14.444), \Omega_{ccc} \Upsilon(14.301), \Omega_{ccc} \eta_b(14.240)$
	$3/2^-$	14.873	
		14.862	
		14.895	$\Omega_{ccb}^* B_c^*(14.465), \Omega_{ccb} B_c^*(14.444), \Omega_{ccb} B_c(14.386), \Omega_{ccc} \Upsilon(14.301)$
		14.878	
		14.862	
	$1/2^-$		

TABLE XV: Predicted spectra of pentaquarks $cccb\bar{c}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$cccb\bar{c}$	$5/2^-$	4.78	11.554	0.90
		4.81	11.564	0.62
	$3/2^-$	4.77	11.549	0.59
		4.70	11.525	1.03
		4.86	11.581	0.43
		4.81	11.564	0.17
		4.71	11.526	0.35
	$1/2^-$			

TABLE XVI: Predicted spectra of pentaquarks $cccb\bar{s}$.

State	J^P	M_{bag}	Threshold
$cccb\bar{s}$	$5/2^-$	11.554	$\Omega_{ccb}^* J/\psi(11.230), \Omega_{ccc} B_c^*(11.173)$
		11.564	$\Omega_{ccb}^* J/\psi(11.230), \Omega_{ccb}^* \eta_c(11.117), \Omega_{ccb} J/\psi(11.209), \Omega_{ccc} B_c^*(11.173), \Omega_{ccc} B_c(11.115)$
	$3/2^-$	11.549	
		11.525	
		11.581	$\Omega_{ccb}^* J/\psi(11.230), \Omega_{ccb} J/\psi(11.209), \Omega_{ccb} \eta_c(11.096), \Omega_{ccc} B_c^*(11.173)$
		11.564	
		11.526	
	$1/2^-$		

TABLE XVII: Predicted spectra of pentaquarks $cccc\bar{b}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$cccc\bar{b}$	$3/2^-$	4.83	11.569	1.07
	$1/2^-$	4.86	11.582	0.63

TABLE XVIII: Predicted spectra of pentaquarks $cccc\bar{s}$.

State	J^P	M_{bag}	Threshold
$cccc\bar{s}$	$3/2^-$	11.569	$\Omega_{ccc} B_c^*(11.173), \Omega_{ccc} B_c(11.115)$
	$1/2^-$	11.582	$\Omega_{ccc} B_c^*(11.173)$

TABLE XIX: Predicted spectra of pentaquarks $cccc\bar{c}$.

State	J^P	R_0	M_{bag}	μ_{bag}
$cccc\bar{c}$	$3/2^-$	4.99	8.229	0.50
	$1/2^-$	5.08	8.262	0.83

TABLE XX: Predicted spectra of pentaquarks $cccc\bar{c}$.

State	J^P	M_{bag}	Threshold
$cccc\bar{c}$	$3/2^-$	8.229	$\Omega_{ccc}J/\psi(7.938), \Omega_{ccc}\eta_c(7.825)$
	$1/2^-$	8.262	$\Omega_{ccc}J/\psi(7.938)$