1 Mesons

1.1 Meson Properties

Name	ID	Mass	Width	Spin	Isospin	Strange	Charm	Stability	min.Mass
π	101	0.1380	0.0000	0.0	1.0	0	0	0	0.000
η	102	0.5478	0.0000	0.0	0.0	0	0	3	0.000
ρ	103	0.7755	0.1491	1.0	1.0	0	0	3	0.276
σ	104	0.8000	0.5000	0.0	0.0	0	0	3	0.276
ω	105	0.7826	0.0085	1.0	0.0	0	0	3	0.138
η'	106	0.9578	0.0002	0.0	0.0	0	0	3	0.000
ϕ	107	1.0194	0.0043	1.0	0.0	0	0	3	0.414
η_c	108	2.9800	0.0280	0.0	0.0	0	0	3	0.000
J/ψ	109	3.0969	0.0000	1.0	0.0	0	0	0	0.000
K	110	0.4960	0.0000	0.0	0.5	1	0	0	0.496
$\overline{K}$	111	0.4960	0.0000	0.0	0.5	-1	0	0	0.496
K^*	112	0.8920	0.0500	1.0	0.5	1	0	3	0.634
$\overline{K}^*$	113	0.8920	0.0500	1.0	0.5	-1	0	3	0.634
D	114	1.8670	0.0000	0.0	0.5	0	1	0	1.500
$\overline{D}$	115	1.8670	0.0000	0.0	0.5	0	-1	0	1.500
D^*	116	2.0070	0.0020	1.0	0.5	0	1	3	1.500
$\overline{D}^*$	117	2.0070	0.0020	1.0	0.5	0	-1	3	1.500
D_s^+	118	1.9690	0.0000	0.0	0.0	1	1	0	1.500
D_s^-	119	1.9690	0.0000	0.0	0.0	-1	-1	0	1.500
D_s^{*+}	120	2.1120	0.0010	1.0	0.0	1	1	3	1.500
D_s^{*-}	121	2.1120	0.0010	1.0	0.0	-1	-1	3	1.500
$f_2(1270)$	122	1.2754	0.1852	2.0	0.0	0	0	3	0.276

1.2 Meson Decays

Name	$\Gamma/\Gamma_{\text{tot}}$	P_1	P_2	P_3	L
η	0.4000	γ	γ		0
	0.2800	π^0	π^-	π^+	—
	0.3200	π^0	π^0	π^0	—
ρ	1.0000	π	π		1
σ	1.0000	π	π		0
ω	0.0200	π	π		1
	0.0900	π	γ		1
	0.8900	π^0	π^-	π^+	—
η'	0.3100	ρ	γ		0
	0.2200	π^0	π^0	η^0	—
	0.4700	π^+	π^-	η^0	—
ϕ	0.1300	π	ρ		1
	0.8400	K	$\overline{K}$		1
	0.0300	π^0	π^-	π^+	—
K^*	1.0000	K	π		1
$\overline{K}^*$	1.0000	$\overline{K}$	π		1
D^*	99.9999	D	γ		0
	99.9999	π	D		0
$\overline{D}^*$	99.9999	$\overline{D}$	γ		0
	99.9999	π	$\overline{D}$		0
D_s^{*+}	0.9500	γ	D_s^+		0
	0.0500	π	D_s^+		0
D_s^{*-}	0.9500	γ	D_s^-		0
	0.0500	π	D_s^-		0
$f_2(1270)$	0.6000	π	π		2
	0.4000	π^0	π^-	π^+	—

2 Baryons

2.1 Baryon Properties

Name	ID	Mass	Width	Spin	Rating	Isospin	Strange	Charm	Stability	min.Mass
N	1	0.938	0.000	0.5	****	0.5	0	0	0	0.700
Δ	2	1.232	0.118	1.5	****	1.5	0	0	3	1.076
$P_{11}(1440)$	3	1.462	0.391	0.5	****	0.5	0	0	3	1.076
$S_{11}(1535)$	4	1.534	0.151	0.5	***	0.5	0	0	3	1.076
$S_{11}(1650)$	5	1.659	0.173	0.5	****	0.5	0	0	3	1.076
$S_{11}(2090)$	6	1.928	0.414	0.5	*	0.5	0	0	3	1.076
$D_{13}(1520)$	7	1.524	0.124	1.5	****	0.5	0	0	3	1.076
$D_{13}(1700)$	8	1.737	0.249	1.5	*	0.5	0	0	3	1.076
$D_{13}(2080)$	9	1.804	0.447	1.5	*	0.5	0	0	3	1.076
$D_{15}(1675)$	10	1.676	0.159	2.5	****	0.5	0	0	3	1.076
$G_{17}(2190)$	11	2.127	0.547	3.5	****	0.5	0	0	3	1.076
$P_{11}(1710)$	12	1.717	0.478	0.5	*	0.5	0	0	3	1.076
$P_{11}(2100)$	13	1.885	0.113	0.5	*	0.5	0	0	3	1.076
$P_{13}(1720)$	14	1.717	0.383	1.5	*	0.5	0	0	3	1.076
$P_{13}(1900)$	15	1.879	0.498	1.5	***	0.5	0	0	3	1.076
$F_{15}(1680)$	16	1.684	0.139	2.5	****	0.5	0	0	3	1.076
$F_{15}(2000)$	17	1.903	0.494	2.5	*	0.5	0	0	3	1.076
$F_{17}(1990)$	18	2.086	0.535	3.5	**	0.5	0	0	3	1.076
$S_{31}(1620)$	19	1.672	0.154	0.5	**	1.5	0	0	3	1.076
$S_{31}(1900)$	20	1.920	0.263	0.5	***	1.5	0	0	3	1.076
$D_{33}(1700)$	21	1.762	0.599	1.5	*	1.5	0	0	3	1.076
$D_{33}(1940)$	22	2.057	0.460	1.5	*	1.5	0	0	3	1.076
$D_{35}(1930)$	23	1.956	0.526	2.5	**	1.5	0	0	3	1.076
$D_{35}(2350)$	24	2.171	0.264	2.5	**	1.5	0	0	3	1.076
$P_{31}(1750)$	25	1.744	0.299	0.5	*	1.5	0	0	3	1.076
$P_{31}(1910)$	26	1.882	0.239	0.5	****	1.5	0	0	3	1.076
$P_{33}(1600)$	27	1.706	0.430	1.5	***	1.5	0	0	3	1.076
$P_{33}(1920)$	28	2.014	0.152	1.5	*	1.5	0	0	3	1.076
$F_{35}(1750)$	29	1.752	0.251	2.5	*	1.5	0	0	3	1.076
$F_{35}(1905)$	30	1.881	0.327	2.5	***	1.5	0	0	3	1.076
$F_{37}(1950)$	31	1.945	0.300	3.5	****	1.5	0	0	3	1.076
Λ	32	1.116	0.000	0.5	****	0.0	-1	0	0	1.076
Σ	33	1.189	0.000	0.5	****	1.0	-1	0	0	1.076
$\Sigma(1385)$	34	1.385	0.036	1.5	****	1.0	-1	0	3	1.254
$\Lambda(1405)$	35	1.405	0.050	0.5	****	0.0	-1	0	3	1.254
$\Lambda(1520)$	36	1.520	0.016	1.5	****	0.0	-1	0	3	1.254
$\Lambda(1600)$	37	1.600	0.150	0.5	***	0.0	-1	0	3	1.254
$\Lambda(1670)$	38	1.670	0.035	0.5	****	0.0	-1	0	3	1.254
$\Lambda(1690)$	39	1.690	0.060	1.5	****	0.0	-1	0	3	1.254
$\Lambda(1810)$	40	1.810	0.150	0.5	***	0.0	-1	0	3	1.254
$\Lambda(1820)$	41	1.820	0.080	2.5	****	0.0	-1	0	3	1.254
$\Lambda(1830)$	42	1.830	0.095	2.5	****	0.0	-1	0	3	1.254
$\Sigma(1670)$	43	1.670	0.060	1.5	****	1.0	-1	0	3	1.254
$\Sigma(1775)$	44	1.775	0.120	2.5	****	1.0	-1	0	3	1.254
$\Sigma(2030)$	45	2.030	0.180	3.5	****	1.0	-1	0	3	1.254
$\Lambda(1800)$	46	1.800	0.300	0.5	***	0.0	-1	0	3	1.254
$\Lambda(1890)$	47	1.890	0.100	1.5	****	0.0	-1	0	3	1.254
$\Lambda(2100)$	48	2.100	0.200	3.5	****	0.0	-1	0	3	1.254
$\Lambda(2110)$	49	2.110	0.200	2.5	***	0.0	-1	0	3	1.254
$\Sigma(1660)$	50	1.660	0.100	0.5	***	1.0	-1	0	3	1.254
$\Sigma(1750)$	51	1.750	0.090	0.5	***	1.0	-1	0	3	1.254
$\Sigma(1915)$	52	1.915	0.120	2.5	****	1.0	-1	0	3	1.254
Ξ	53	1.315	0.000	0.5	****	0.5	-2	0	0	1.254
Ξ^*	54	1.530	0.009	1.5	****	0.5	-2	0	3	1.254
Ω	55	1.672	0.000	1.5	****	0.0	-3	0	0	1.254
Λ_c	56	2.285	0.000	0.5	****	0.0	0	1	0	1.076
Σ_c	57	2.452	0.000	0.5	****	1.0	0	1	0	1.076
Σ_c^*	58	2.520	0.015	1.5	****	1.0	0	1	3	2.423
Ξ_c	59	2.466	0.000	0.5	***	0.5	-1	1	0	2.423
Ξ_c^*	60	2.645	0.004	1.5	***	0.5	-1	1	3	2.423
Ω_c	61	2.697	0.000	0.5	***	0.0	-2	1	0	2.423

2.2 Non-Strange Baryon Decays

Name	$\Gamma/\Gamma_{\rm tot}$	P_1	P_2	L
Δ	1.00000	π	N	1
$P_{11}(1440)$	0.69000	π	N	1
	0.22000	π	Δ	1
	0.09000	σ	N	0
$S_{11}(1535)$	0.51000	π	N	0
	0.43000	η	N	0
	0.02000	ρ	N	0
	0.01000	ρ	N	2
	0.01000	σ	N	1
	0.02000	π	$P_{11}(1440)$	0
$S_{11}(1650)$	0.89000	π	N	0
	0.03000	η	N	0
	0.02000	π	Δ	2
	0.03000	ρ	N	2
	0.02000	σ	N	1
	0.01000	π	$P_{11}(1440)$	0
$S_{11}(2090)$	0.10000	π	N	0
	0.06000	π	Δ	2
	0.49000	ρ	N	0
	0.05000	σ	N	1
	0.30000	π	$P_{11}(1440)$	0
$D_{13}(1520)$	0.59000	π	N	2
	0.05000	π	Δ	0
	0.15000	π	Δ	2
	0.21000	ρ	N	0
$D_{13}(1700)$	0.01000	π	N	2
	0.05000	π	Δ	0
	0.79000	π	Δ	2
	0.13000	ρ	N	0
	0.02000	σ	N	1
$D_{13}(2080)$	0.23000	π	N	2
	0.03000	π	Δ	0
	0.21000	π	Δ	2
	0.26000	ρ	N	0
	0.27000	σ	N	1
$D_{15}(1675)$	0.47000	π	N	2
	0.53000	π	Δ	2
$G_{17}(2190)$	0.22000	π	N	4
	0.49000	ω	N	4
	0.29000	ρ	N	2
$P_{11}(1710)$	0.09000	π	N	1
	0.37000	K	Λ	1
	0.49000	π	Δ	1
	0.03000	ρ	N	1
	0.02000	σ	N	0
$P_{11}(2100)$	0.15000	π	N	1
	0.02000	K	Λ	1
	0.24000	π	Δ	1
	0.27000	ρ	N	1
	0.32000	σ	N	0
$P_{13}(1720)$	0.13000	π	N	1
	0.87000	ρ	N	1
$P_{13}(1900)$	0.26000	π	N	1
	0.30000	ω	N	1
	0.44000	ρ	N	1
$F_{15}(1680)$	0.70000	π	N	3
	0.10000	π	Δ	1
	0.01000	π	Δ	3
	0.05000	ρ	N	1
	0.02000	ρ	N	3
	0.12000	σ	N	2
$F_{15}(2000)$	0.08000	π	N	3
	0.12000	π	Δ	1
	0.60000	ρ	N	1
	0.15000	ρ	N	3
	0.05000	σ	N	2
$F_{17}(1990)$	0.06000	π	N	3
	0.94000	η	N	3
$S_{31}(1620)$	0.09000	π	N	0
	0.62000	π	Δ	2
	0.25000	ρ	N	0
	0.04000	ρ	N	2
$S_{31}(1900)$	0.40000	π	N	0
	0.16000	π	Δ	2
	0.05000	ρ	N	0
	0.33000	ρ	N	2
	0.06000	π	$P_{11}(1440)$	0
$D_{33}(1700)$	0.14000	π	N	2
	0.74000	π	Δ	0
	0.04000	π	Δ	2
	0.08000	ρ	N	0
$D_{33}(1940)$	0.18000	π	N	2
	0.07000	π	Δ	0
	0.40000	π	Δ	2
	0.35000	ρ	N	0
$D_{35}(1930)$	0.18000	π	N	2
	0.82000	ρ	Δ	2
$D_{35}(2350)$	0.02000	π	N	2
	0.98000	ρ	Δ	2
$P_{31}(1750)$	0.08000	π	N	1
	0.28000	π	$P_{11}(1440)$	1
	0.64000	ρ	Δ	1
$P_{31}(1910)$	0.23000	π	N	1
	0.10000	ρ	Δ	1
	0.67000	π	$P_{11}(1440)$	1
$P_{33}(1600)$	0.12000	π	N	1
	0.68000	π	Δ	1
	0.20000	π	$P_{11}(1440)$	1
$P_{33}(1920)$	0.02000	π	N	1
	0.83000	π	Δ	1
	0.15000	π	$P_{11}(1440)$	1
$F_{35}(1750)$	0.02000	π	N	3
	0.28000	π	Δ	1
	0.48000	π	Δ	3
	0.22000	ρ	N	1
$F_{35}(1905)$	0.12000	π	N	3
	0.01000	π	Δ	1
	0.87000	ρ	N	1
$F_{37}(1950)$	0.38000	π	N	3
	0.18000	π	Δ	3
	0.44000	ρ	Δ	3

2.3 Strange/Charmed Baryon Decays

$\Sigma(1385)$	0.88000	π	Λ	1
	0.12000	π	Σ	1
$\Lambda(1405)$	1.00000	π	Σ	0
$\Lambda(1520)$	0.46000	$\overline{K}$	N	2
	0.43000	π	Σ	2
	0.11000	π	$\Sigma(1385)$	0
$\Lambda(1600)$	0.23000	$\overline{K}$	N	1
	0.32000	π	Σ	1
	0.45000	π	$\Sigma(1385)$	1
$\Lambda(1670)$	0.25000	$\overline{K}$	N	0
	0.40000	π	Σ	0
	0.14000	π	$\Sigma(1385)$	2
	0.21000	η	Λ	0
$\Lambda(1690)$	0.25000	$\overline{K}$	N	2
	0.30000	π	Σ	2
	0.15000	π	$\Sigma(1385)$	0
	0.30000	π	$\Sigma(1385)$	2
$\Lambda(1810)$	0.25000	$\overline{K}$	N	1
	0.10000	π	Σ	1
	0.14000	π	$\Sigma(1385)$	1
	0.05000	η	Λ	1
	0.46000	$\overline{K}^*$	N	1
$\Lambda(1820)$	0.60000	$\overline{K}$	N	3
	0.11000	π	Σ	3
	0.12000	π	$\Sigma(1385)$	1
	0.02000	π	$\Sigma(1385)$	3
	0.03000	η	Λ	3
	0.12000	$\overline{K}^*$	N	1
$\Lambda(1830)$	0.05000	$\overline{K}$	N	2
	0.51000	π	Σ	2
	0.39000	π	$\Sigma(1385)$	2
	0.05000	η	Λ	2
$\Sigma(1670)$	0.10000	π	Λ	2
	0.10000	$\overline{K}$	N	2
	0.40000	π	Σ	2
	0.08000	π	$\Sigma(1385)$	0
	0.18000	π	$\Sigma(1385)$	2
	0.07000	π	$\Lambda(1405)$	1
	0.07000	π	$\Lambda(1520)$	1
$\Sigma(1775)$	0.18000	π	Λ	2
	0.42000	$\overline{K}$	N	2
	0.03000	π	Σ	2
	0.13000	π	$\Sigma(1385)$	2
	0.24000	π	$\Lambda(1520)$	1
$\Sigma(2030)$	0.18000	π	Λ	3
	0.20000	$\overline{K}$	N	3
	0.05000	π	Σ	3
	0.11000	π	$\Sigma(1385)$	3
	0.15000	$\overline{K}$	Δ	3
	0.06000	$\overline{K}^*$	N	3
	0.08000	π	$\Lambda(1520)$	2
	0.04000	π	$\Lambda(1520)$	4
	0.13000	π	$\Lambda(1820)$	1
$\Lambda(1800)$	0.30000	$\overline{K}$	N	0
	0.10000	π	Σ	0
	0.13000	π	$\Sigma(1385)$	2
	0.25000	η	Λ	0
	0.12000	$\overline{K}^*$	N	0
	0.10000	$\overline{K}^*$	N	2

$\Lambda(1890)$	0.27000	$\overline{K}$	N	1
	0.06000	π	Σ	1
	0.12000	π	$\Sigma(1385)$	3
	0.03000	η	Λ	1
	0.49000	$\overline{K}^*$	N	1
	0.03000	$\overline{K}^*$	N	3
$\Lambda(2100)$	0.30000	$\overline{K}$	N	4
	0.05000	π	Σ	4
	0.32000	π	$\Sigma(1385)$	4
	0.02000	η	Λ	4
	0.21000	$\overline{K}^*$	N	2
	0.02000	$\overline{K}^*$	N	4
	0.08000	ω	Λ	2
$\Lambda(2110)$	0.15000	$\overline{K}$	N	3
	0.27000	π	Σ	3
	0.06000	π	$\Sigma(1385)$	1
	0.03000	η	Λ	3
	0.41000	$\overline{K}^*$	N	3
	0.08000	ω	Λ	1
$\Sigma(1660)$	0.33000	π	Λ	1
	0.15000	$\overline{K}$	N	1
	0.25000	π	Σ	1
	0.27000	π	$\Sigma(1385)$	1
$\Sigma(1750)$	0.10000	π	Λ	0
	0.18000	$\overline{K}$	N	0
	0.05000	π	Σ	0
	0.27000	π	$\Sigma(1385)$	2
	0.40000	η	Σ	0
$\Sigma(1915)$	0.08000	π	Λ	3
	0.10000	$\overline{K}$	N	3
	0.29000	π	Σ	3
	0.02000	π	$\Sigma(1385)$	3
	0.40000	$\overline{K}^*$	N	1
	0.11000	$\overline{K}^*$	N	3
Ξ^*	1.00000	π	Ξ	0
Σ_c^*	1.00000	π	Λ_c	0
Ξ_c^*	1.00000	π	Ξ_c	0