

Name	Spin	Self-Conj.	FR name	FR mass	Value [GeV]	FR width	Value [GeV]	PDG ID
G	1	yes	g	MG	0	0		21
A	1	yes	A	MA	0	0		22
Z_L	1	yes	Z	MZ	91.19	WZ	2.495	23
W_L^\pm	1	no	W+/W-	MW	80.4	WW	2.085	24
Z_R	1	yes	ZR	MZR	internal	WZR	334.0	33
W_R^\pm	1	no	WR+/WR-	MWR	6000	WWR	190.5	34
h	0	yes	H	MH	125.1	WH	0.004115	25
Δ	0	yes	DD	MDD	500	WDD	120.3	45
H	0	yes	HH	MHH	20000	WHH	2667.9	35
A	0	yes	AA	MAA	20010	WAA	2019.2	55
H^+	0	no	H+/H-	MHP	internal	WHP	2012.4	37
Δ_R^{++}	0	no	DR++/DR--	MDRPP	500	WDRPP	25.4	9000001
Δ_L^{++}	0	no	DL++/DL--	MDLPP	internal	WDLPP	32.4	9000002
Δ_L^+	0	no	DL+/DL-	MDLP	internal	WDLP	28.8	9000003
Δ_L^0	0	yes	DLO	MDL	500	WDL	52.1	9000004
χ_L^0	0	yes	CHILO	MCHILO	internal	WCHILO	52.1	9000005
d	$\frac{1}{2}$	no	d/d $\tilde{}$	MD	0.00504	0		1
u	$\frac{1}{2}$	no	u/u $\tilde{}$	MU	0.00255	0		2
s	$\frac{1}{2}$	no	s/s $\tilde{}$	MS	0.101	0		3
c	$\frac{1}{2}$	no	c/c $\tilde{}$	MC	1.27	0		4
b	$\frac{1}{2}$	no	b/b $\tilde{}$	MB	4.7	0		5
t	$\frac{1}{2}$	no	t/t $\tilde{}$	MT	172	WT	1.508	6
e	$\frac{1}{2}$	no	e-/e+	ME	0.511×10^{-3}	0		11
μ	$\frac{1}{2}$	no	mu-/mu+	MMU	0.1057	0		13
τ	$\frac{1}{2}$	no	ta-/ta+	MTA	1.777	0		15
ν_1	$\frac{1}{2}$	yes	ve	MNU1	$1. \times 10^{-12}$	0		12
ν_2	$\frac{1}{2}$	yes	vm	MNU2	8.9×10^{-12}	0		14
ν_3	$\frac{1}{2}$	yes	vt	MNU3	50.4×10^{-12}	0		16
N_1	$\frac{1}{2}$	yes	N1	MN1	100	WN1	3.4×10^{-10}	9900012
N_2	$\frac{1}{2}$	yes	N2	MN2	2000	WN2	5.4×10^{-4}	9900014
N_3	$\frac{1}{2}$	yes	N3	MN3	10000	WN3	85.9	9900016

TABLE III. Physical particle fields in the LRSM, with their masses, widths, and PDG IDs.