

Category	Particle Name	Symbol	Anti-particle	Mass (MeV/c ²)	<i>B</i>	<i>L_e</i>	<i>L_μ</i>	<i>L_τ</i>	<i>S</i>	Lifetime (s)	Principal Decay Modes ^a
Leptons	Electron	e [−]	e ⁺	0.511	0	+1	0	0	0	Stable	
	Electron-neutrino	ν _e	ν̄ _e	<2.8 × 10 ^{−6}	0	+1	0	0	0	Stable	
	Muon	μ [−]	μ ⁺	105.7	0	0	+1	0	0	2.19 × 10 ^{−6}	e [−] ν̄ _e ν _μ
	Muon-neutrino	ν _μ	ν̄ _μ	<3.5 × 10 ^{−6}	0	0	+1	0	0	Stable	
	Tau	τ [−]	τ ⁺	1784	0	0	0	+1	0	3.3 × 10 ^{−13}	μ [−] ν̄ _μ ν _τ , e [−] ν̄ _e ν _τ
	Tau-neutrino	ν _τ	ν̄ _τ	<8.4 × 10 ^{−6}	0	0	0	+1	0	Stable	
Hadrons											
Mesons	Pion	π ⁺	π [−]	139.6	0	0	0	0	0	2.60 × 10 ^{−8}	μ ⁺ ν _μ
		π ⁰	Self	135.0	0	0	0	0	0	0.83 × 10 ^{−16}	2γ
	Kaon	K ⁺	K [−]	493.7	0	0	0	0	+1	1.24 × 10 ^{−8}	μ ⁺ ν _μ π ⁺ π ⁰
		K _S ⁰	K̄ _S ⁰	497.7	0	0	0	0	+1	0.89 × 10 ^{−10}	π ⁺ π [−] 2π ⁰
		K _L ⁰	K̄ _L ⁰	497.7	0	0	0	0	+1	5.2 × 10 ^{−8}	π [±] e [∓] ν̄ _e 3π ⁰
											π [±] μ [∓] ν̄ _μ
	Eta	η	Self	548.8	0	0	0	0	0	<10 ^{−18}	2γ, 3π ⁰
		η′	Self	958	0	0	0	0	0	2.2 × 10 ^{−21}	η π ⁺ π [−]
	Baryons	Proton	p̄	938.3	+1	0	0	0	0	Stable	
		Neutron	n̄	939.6	+1	0	0	0	0	624	p e [−] ν̄ _e
		Lambda	Λ̄ ⁰	1115.6	+1	0	0	0	−1	2.6 × 10 ^{−10}	p π [−] , n π ⁰
		Sigma	Σ ⁺	1189.4	+1	0	0	0	−1	0.80 × 10 ^{−10}	p π ⁰ , n π ⁺
			Σ ⁰	1192.5	+1	0	0	0	−1	6 × 10 ^{−20}	Λ ⁰ γ
			Σ [−]	1197.3	+1	0	0	0	−1	1.5 × 10 ^{−10}	n π [−]
			Δ ⁺⁺	1230	+1	0	0	0	0	6 × 10 ^{−24}	p π ⁺
		Delta	Δ ⁺	1231	+1	0	0	0	0	6 × 10 ^{−24}	p π ⁰ , n π ⁺
			Δ ⁰	1232	+1	0	0	0	0	6 × 10 ^{−24}	n π ⁰ , p π [−]
			Δ [−]	1234	+1	0	0	0	0	6 × 10 ^{−24}	n π [−]
	Xi	Ξ ⁰	Ξ̄ ⁰	1315	+1	0	0	0	−2	2.9 × 10 ^{−10}	Λ ⁰ π ⁰
		Ξ [−]	Ξ ⁺	1321	+1	0	0	0	−2	1.64 × 10 ^{−10}	Λ ⁰ π [−]
	Omega	Ω [−]	Ω ⁺	1672	+1	0	0	0	−3	0.82 × 10 ^{−10}	Ξ [−] π ⁰ , Ξ ⁰ π [−] , Λ ⁰ K [−]

^aNotations in this column such as p π[−], n π⁰ indicate two possible decay modes. In this case, the two possible decays are Λ⁰ → p + π[−] and Λ⁰ → n + π⁰.