Σ^+ DECAY MODES		Fraction (Γ_i/Γ)	Confidence level	p (MeV/c)
$p\pi^0$		(51.57 ± 0.30) %		189
$n\pi^+$		(48.30 ± 0.30) %		185
$p\gamma$		(1.25 ± 0.07) × 10^{-3}		225
$n\pi^+\gamma$	[h]	(4.5 ± 0.5) × 10^{-4}		185
$\Lambda e^+\nu_e$		(2.0 ± 0.5) × 10^{-5}		71
$\Delta S = \Delta Q$ (SQ) violating modes or $\Delta S = 1$ weak neutral current ($S1$) modes				
$ne^+\nu_e$	SQ	< 5 × 10^{-6}	90%	224
$n\mu^+\nu_\mu$	SQ	< 3.0 × 10^{-5}	90%	202
pe^+e^-	$S1$	< 7 × 10^{-6}		225

Σ^0 $I(J^P) = 1(\frac{1}{2}^+)$

J^P not measured; assumed to be the same as for the Σ^+ and Σ^-.

Mass $m = 1192.55 \pm 0.08$ MeV (S = 1.2)
$m_{\Sigma^-} - m_{\Sigma^0} = 4.88 \pm 0.08$ MeV (S = 1.2)
$m_{\Sigma^0} - m_\Lambda = 76.87 \pm 0.08$ MeV (S = 1.2)
Mean life $\tau = (7.4 \pm 0.7) \times 10^{-20}$ s
$c\tau = 2.22 \times 10^{-11}$ m
Transition magnetic moment $|\mu_{\Sigma\Lambda}| = 1.61 \pm 0.08\ \mu_N$

Σ^0 DECAY MODES		Fraction (Γ_i/Γ)	Confidence level	p (MeV/c)
$\Lambda\gamma$		100 %		74
$\Lambda\gamma\gamma$		< 3 %	90%	74
Λe^+e^-	[j]	5×10^{-3}		74

Σ^- $I(J^P) = 1(\frac{1}{2}^+)$

Mass $m = 1197.436 \pm 0.033$ MeV (S = 1.2)
$m_{\Sigma^-} - m_{\Sigma^+} = 8.07 \pm 0.08$ MeV (S = 1.9)
$m_{\Sigma^-} - m_\Lambda = 81.752 \pm 0.034$ MeV (S = 1.2)
Mean life $\tau = (1.479 \pm 0.011) \times 10^{-10}$ s (S = 1.3)
$c\tau = 4.434$ cm
Magnetic moment $\mu = -1.160 \pm 0.025\ \mu_N$ (S = 1.7)