

Table 3: For the Sherpa2.2 datasets branching ratio for different decay channels of τ^- (pdgid 15). Total number of analysed τ^- :1520896. ν_τ^* (pdgid -16) particles are omitted from the decay products list. In every decay channel we additionally allow any number of photons from radiative decay.

Decay channel	Decay products	PDG code	Branching ratio
1	e^-, ν_e^*	11,-12	17.845±0.019
2	μ^-, ν_μ^*	13,-14	17.376±0.018
3	π^-	-211	10.844±0.014
4	π^-, π^0	-211,111	25.498±0.022
5	$2\pi^-, \pi^+$ $\pi^-, 2\pi^0$	-211,-211,211 -211,111,111	18.364±0.019
6	K^-	-321	0.695±0.004
7	K^+, π^0 K^0, π^+ K_L^0, π^+ K_S^0, π^+	-321,111 311,-211 310,-211 130,-211	1.270±0.05
8	$2\pi^-, \pi^0, \pi^+$	-211,-211,111,211	4.449±0.09
9	$3\pi^0, \pi^-$	111,111,111,-211	1.052±0.04
10	$2\pi^-, \pi^+, 2\pi^0$	-211,-211,211,111,111	0.590±0.003
11	$3\pi^-, 2\pi^+$	-211,-211,-211,211,211	NONE
12	$3\pi^-, 2\pi^+, \pi^0$	-211,-211,-211,211,211,111	0.098±0.001
13	$2\pi^-, \pi^+, 3\pi^0$	-211,-211,211,111,111,111	0.268±0.002
14	K^-, π^-, K^+	-321,-211,321	0.148±0.002
15	K^0, π^-, K^{0*} K_S^0, π^-, K^{0*} K_L^0, π^-, K^{0*} $2K_S^0, \pi^-$ K_S^0, π^-, K_L^0 $2K_L^0, \pi^-$	311,-211,-311 130,-211,-311 310,-211,-311 130,130,-211 130,-211,310 310,310,-211	0.103±0.001
16	K^-, K^0, π^0 K^-, K_S^0, π^0 K^-, K_L^0, π^0	-321,311,111 -321,130,111 -321,310,111	0.148±0.002
17	$2\pi^0, K^-$	111,111,-321	0.057±0.001
18	K^-, π^-, π^+	-321,-211,211	0.344±0.003
19	π^-, K^{0*}, π^0 π^-, K_S^0, π^0 π^-, K_L^0, π^0	-211,-311,111 -211,130,111 -211,310,111	0.371±0.003
20	η, π^-, π^0	221,-211,111	NONE
21	$\pi^-, \pi^0, \gamma (*)$	-211,111, 22	NONE
22	K^-, K^0 K^-, K_S^0 K^-, K_L^0	-321,311 -321,130 -321,310	0.140±0.002
-	OTHER	OTHER	0.340±0.003