

CHARGED CURRENT BRANCHING RATIOS
($T_{ve} = 4.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{12}C	0.	2.21(-1)	7.71(-1)	2.18(-1)	0.	7.80(-1)
^{13}C	0.	1.50(-1)	8.46(-1)	1.76(-1)	0.	8.24(-1)
^{14}C	3.07(-2)	1.64(-1)	8.05(-1)	2.49(-1)	0.	7.51(-1)
^{13}N	0.	1.23(-1)	8.70(-1)	1.76(-1)	0.	8.24(-1)
^{14}N	0.	9.52(-1)	3.85(-2)	9.21(-1)	0.	6.57(-2)
^{15}N	0.	2.80(-1)	7.08(-1)	3.22(-1)	0.	6.78(-1)
^{14}O	0.	1.00(0)	0.	2.35(-2)	2.15(-1)	7.62(-1)
^{15}O	0.	1.00(0)	0.	1.20(-1)	2.02(-1)	6.78(-1)
^{16}O	0.	9.80(-1)	1.32(-2)	5.13(-1)	1.50(-3)	4.79(-1)
^{17}O	0.	9.32(-1)	0.	4.88(-1)	0.	5.12(-1)
^{18}O	1.17(-2)	1.04(-1)	5.01(-1)	6.05(-1)	0.	3.95(-1)
^{17}F	0.	3.78(-1)	6.21(-1)	3.72(-1)	0.	5.00(-1)
^{18}F	0.	3.35(-1)	4.38(-1)	1.48(-1)	0.	3.95(-1)
^{19}F	0.	3.89(-2)	3.38(-1)	7.09(-1)	0.	2.91(-1)
^{17}Ne	0.	1.39(-2)	1.07(-2)	0.	9.33(-1)	0.
^{18}Ne	0.	9.88(-1)	1.19(-2)	1.00(-2)	1.14(-1)	4.56(-1)
^{19}Ne	0.	9.98(-1)	0.	0.	2.30(-3)	2.91(-1)
^{20}Ne	0.	8.38(-1)	1.61(-1)	8.11(-1)	0.	1.89(-1)
^{21}Ne	0.	6.84(-1)	3.16(-1)	7.31(-1)	0.	2.69(-1)
^{22}Ne	0.	6.05(-1)	3.95(-1)	6.53(-1)	0.	3.47(-1)
^{23}Ne	0.	0.	0.	5.73(-1)	0.	4.27(-1)
^{19}Na	0.	9.99(-1)	1.10(-3)	0.	3.98(-2)	2.91(-1)
^{20}Na	0.	7.63(-1)	2.37(-1)	0.	0.	1.86(-1)
^{21}Na	0.	6.84(-1)	3.16(-1)	7.34(-1)	0.	2.66(-1)
^{22}Na	0.	6.06(-1)	3.94(-1)	0.	0.	0.
^{23}Na	0.	5.24(-1)	4.76(-1)	5.73(-1)	0.	4.27(-1)
^{24}Na	0.	0.	0.	4.92(-1)	0.	5.08(-1)
^{25}Na	3.86(-1)	0.	6.14(-1)	4.25(-1)	0.	5.75(-1)
^{20}Mg	0.	1.00(0)	0.	0.	8.14(-1)	1.86(-1)
^{21}Mg	0.	1.00(0)	0.	0.	7.34(-1)	2.66(-1)
^{22}Mg	0.	1.00(0)	0.	0.	6.52(-1)	3.48(-1)
^{23}Mg	0.	1.00(0)	0.	0.	0.	0.
^{24}Mg	0.	9.14(-1)	8.58(-2)	4.63(-1)	0.	5.37(-1)
^{25}Mg	0.	1.00(0)	0.	4.25(-1)	0.	5.75(-1)
^{26}Mg	0.	3.23(-1)	6.77(-1)	3.59(-1)	0.	6.41(-1)

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Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
²⁷ Mg	0.	2.56(-1)	7.44(-1)	2.92(-1)	0.	7.08(-1)
²⁸ Mg	1.98(-1)	0.	8.02(-1)	2.25(-1)	0.	7.75(-1)
²² Al	0.	1.00(0)	0.	0.	6.53(-1)	3.47(-1)
²³ Al	0.	1.00(0)	0.	0.	5.67(-1)	4.33(-1)
²⁴ Al	0.	4.49(-1)	5.51(-1)	0.	0.	0.
²⁵ Al	0.	3.86(-1)	6.14(-1)	4.25(-1)	0.	5.75(-1)
²⁶ Al	0.	3.23(-1)	6.77(-1)	0.	0.	0.
²⁷ Al	0.	2.60(-1)	7.40(-1)	2.92(-1)	0.	7.08(-1)
²⁸ Al	0.	0.	0.	2.25(-1)	0.	7.75(-1)
²⁹ Al	2.07(-1)	0.	7.93(-1)	2.36(-1)	0.	7.64(-1)
³⁰ Al	0.	0.	0.	2.45(-1)	0.	7.55(-1)
²³ Si	0.	1.00(0)	0.	0.	1.00(0)	0.
²⁴ Si	0.	1.00(0)	0.	0.	1.00(0)	0.
²⁵ Si	0.	1.00(0)	0.	0.	9.99(-1)	0.
²⁶ Si	0.	1.00(0)	0.	0.	3.59(-1)	6.41(-1)
²⁷ Si	0.	1.00(0)	0.	0.	1.67(-1)	8.33(-1)
²⁸ Si	0.	9.88(-1)	1.23(-2)	1.95(-1)	0.	8.05(-1)
²⁹ Si	0.	9.99(-1)	1.10(-3)	2.34(-1)	0.	7.66(-1)
³⁰ Si	0.	2.17(-1)	7.83(-1)	2.45(-1)	0.	7.55(-1)
³¹ Si	0.	2.26(-1)	7.74(-1)	2.55(-1)	0.	7.45(-1)
³² Si	2.17(-1)	1.96(-2)	7.64(-1)	9.99(-1)	0.	1.10(-3)
²⁷ P	0.	1.00(0)	0.	0.	2.88(-1)	7.12(-1)
²⁸ P	0.	1.00(0)	0.	0.	0.	0.
²⁹ P	0.	8.73(-1)	1.27(-1)	2.35(-1)	0.	7.65(-1)
³⁰ P	0.	2.17(-1)	7.83(-1)	0.	0.	0.
³¹ P	0.	2.26(-1)	7.74(-1)	2.55(-1)	0.	7.45(-1)
³² P	0.	1.70(-1)	7.65(-1)	2.65(-1)	0.	7.35(-1)
³³ P	2.69(-1)	4.60(-3)	7.19(-1)	3.19(-1)	0.	6.81(-1)
³⁴ P	2.23(-1)	0.	6.82(-1)	3.73(-1)	0.	6.27(-1)
²⁸ S	0.	1.00(0)	0.	0.	9.98(-1)	1.90(-3)
²⁹ S	0.	1.00(0)	0.	0.	8.65(-1)	1.35(-1)
³⁰ S	0.	1.00(0)	0.	0.	2.45(-1)	7.55(-1)
³¹ S	0.	1.00(0)	0.	0.	2.55(-1)	7.45(-1)
³² S	0.	9.94(-1)	6.20(-3)	2.03(-1)	3.32(-2)	7.64(-1)
³³ S	0.	9.99(-1)	0.	2.60(-1)	5.82(-2)	6.81(-1)

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Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{34}S	0.	3.22(-1)	6.74(-1)	3.73(-1)	0.	6.27(-1)
^{35}S	0.	3.63(-1)	6.29(-1)	4.26(-1)	0.	5.74(-1)
^{36}S	3.04(-1)	1.08(-1)	5.85(-1)	4.80(-1)	0.	5.20(-1)
^{37}S	1.98(-1)	2.32(-1)	5.64(-1)	4.85(-1)	0.	5.15(-1)
^{38}S	9.99(-1)	0.	0.	1.00(0)	0.	0.
^{31}Cl	0.	1.00(0)	0.	0.	2.55(-1)	7.45(-1)
^{32}Cl	0.	9.99(-1)	0.	0.	1.90(-1)	7.35(-1)
^{33}Cl	0.	2.81(-1)	7.19(-1)	3.00(-1)	8.30(-3)	6.81(-1)
^{34}Cl	0.	3.25(-1)	6.74(-1)	2.75(-1)	1.80(-3)	6.32(-1)
^{35}Cl	0.	3.61(-1)	6.29(-1)	4.26(-1)	0.	5.73(-1)
^{36}Cl	0.	3.32(-1)	5.85(-1)	4.79(-1)	0.	5.20(-1)
^{37}Cl	3.70(-1)	5.20(-2)	5.63(-1)	1.00(0)	0.	0.
^{38}Cl	1.29(-1)	8.85(-2)	5.48(-1)	9.90(-1)	0.	9.50(-3)
^{39}Cl	9.97(-1)	0.	0.	1.00(0)	0.	0.
^{40}Cl	8.99(-1)	0.	1.10(-3)	1.00(0)	0.	0.
^{41}Cl	1.00(0)	0.	0.	1.00(0)	0.	0.
^{42}Cl	4.01(-1)	0.	5.99(-1)	1.00(0)	0.	0.
^{32}Ar	0.	1.00(0)	0.	0.	1.00(0)	0.
^{33}Ar	0.	1.00(0)	0.	0.	9.99(-1)	0.
^{34}Ar	0.	1.00(0)	0.	1.20(-3)	3.66(-1)	6.27(-1)
^{35}Ar	0.	1.00(0)	0.	0.	4.15(-1)	5.73(-1)
^{36}Ar	0.	8.49(-1)	1.50(-1)	2.90(-1)	1.02(-1)	5.94(-1)
^{37}Ar	0.	9.99(-1)	0.	2.25(-1)	2.46(-1)	5.15(-1)
^{38}Ar	0.	9.96(-1)	0.	9.97(-1)	1.20(-3)	0.
^{39}Ar	0.	9.95(-1)	0.	9.79(-1)	4.30(-3)	0.
^{40}Ar	9.01(-1)	8.45(-2)	0.	1.00(0)	0.	0.
^{41}Ar	2.49(-1)	6.25(-1)	7.17(-2)	1.00(0)	0.	0.
^{42}Ar	4.00(-1)	1.20(-3)	5.99(-1)	1.00(0)	0.	0.
^{43}Ar	3.48(-1)	2.80(-3)	6.49(-1)	4.22(-1)	0.	5.78(-1)
^{44}Ar	3.02(-1)	0.	6.98(-1)	3.96(-1)	0.	6.04(-1)
^{45}Ar	2.83(-1)	0.	7.17(-1)	3.78(-1)	0.	6.22(-1)
^{46}Ar	2.64(-1)	0.	7.36(-1)	3.60(-1)	0.	6.40(-1)
^{35}K	0.	1.00(0)	0.	0.	4.13(-1)	5.73(-1)
^{36}K	0.	4.15(-1)	5.84(-1)	0.	3.72(-1)	5.20(-1)
^{37}K	0.	9.99(-1)	0.	3.99(-1)	6.23(-2)	5.15(-1)

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Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{38}K	0.	9.95(-1)	0.	1.70(-1)	9.91(-2)	5.12(-1)
^{39}K	0.	9.95(-1)	0.	9.93(-1)	0.	0.
^{40}K	0.	9.46(-1)	4.20(-3)	8.27(-1)	0.	0.
^{41}K	9.89(-1)	7.70(-3)	0.	1.00(0)	0.	0.
^{42}K	1.63(-1)	3.50(-3)	6.06(-1)	4.48(-1)	0.	5.52(-1)
^{43}K	3.51(-1)	0.	6.49(-1)	4.22(-1)	0.	5.78(-1)
^{44}K	2.89(-1)	0.	7.11(-1)	3.96(-1)	0.	6.04(-1)
^{45}K	2.83(-1)	0.	7.17(-1)	3.78(-1)	0.	6.22(-1)
^{46}K	2.64(-1)	0.	7.36(-1)	3.60(-1)	0.	6.40(-1)
^{36}Ca	0.	1.00(0)	0.	0.	9.99(-1)	0.
^{37}Ca	0.	1.00(0)	0.	0.	9.98(-1)	0.
^{38}Ca	0.	1.00(0)	0.	3.10(-3)	9.89(-1)	0.
^{39}Ca	0.	1.00(0)	0.	0.	9.87(-1)	0.
^{40}Ca	0.	9.97(-1)	0.	8.45(-1)	1.06(-1)	0.
^{41}Ca	0.	1.00(0)	0.	3.84(-1)	5.21(-1)	6.80(-3)
^{42}Ca	1.00(-3)	9.94(-1)	1.90(-3)	4.45(-1)	2.80(-3)	5.52(-1)
^{43}Ca	0.	3.29(-1)	6.49(-1)	4.15(-1)	6.80(-3)	5.78(-1)
^{44}Ca	1.82(-1)	1.20(-1)	6.98(-1)	3.96(-1)	0.	6.04(-1)
^{45}Ca	2.39(-2)	2.58(-1)	7.18(-1)	3.78(-1)	0.	6.22(-1)
^{46}Ca	2.59(-1)	5.50(-3)	7.36(-1)	3.60(-1)	0.	6.40(-1)
^{47}Ca	2.17(-1)	2.76(-2)	7.55(-1)	3.42(-1)	0.	6.58(-1)
^{48}Ca	2.26(-1)	0.	7.74(-1)	3.24(-1)	0.	6.76(-1)
^{49}Ca	2.43(-1)	1.50(-3)	7.55(-1)	3.09(-1)	0.	6.91(-1)
^{40}Sc	0.	9.94(-1)	0.	0.	8.60(-1)	2.40(-3)
^{41}Sc	0.	9.97(-1)	0.	9.78(-1)	1.34(-2)	0.
^{42}Sc	0.	9.97(-1)	0.	2.25(-1)	1.14(-2)	5.54(-1)
^{43}Sc	0.	3.35(-1)	6.49(-1)	4.22(-1)	0.	5.78(-1)
^{44}Sc	0.	7.23(-2)	7.03(-1)	3.90(-1)	0.	6.10(-1)
^{45}Sc	2.75(-1)	6.70(-3)	7.17(-1)	3.78(-1)	0.	6.22(-1)
^{46}Sc	0.	2.84(-2)	9.67(-1)	3.59(-1)	0.	6.41(-1)
^{47}Sc	2.45(-1)	0.	7.55(-1)	3.42(-1)	0.	6.58(-1)
^{48}Sc	2.24(-1)	0.	7.76(-1)	3.24(-1)	0.	6.76(-1)
^{49}Sc	2.45(-1)	0.	7.55(-1)	3.09(-1)	0.	6.91(-1)
^{50}Sc	2.63(-1)	0.	7.37(-1)	2.94(-1)	0.	7.06(-1)
^{41}Ti	0.	1.00(0)	0.	0.	9.99(-1)	0.

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Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{42}Ti	0.	1.00(0)	0.	5.20(-3)	9.87(-1)	0.
^{43}Ti	0.	1.00(0)	0.	0.	3.84(-1)	5.78(-1)
^{44}Ti	0.	4.95(-1)	5.05(-1)	1.71(-1)	9.66(-2)	7.27(-1)
^{45}Ti	0.	2.83(-1)	7.17(-1)	2.94(-2)	3.48(-1)	6.23(-1)
^{46}Ti	0.	2.64(-1)	7.36(-1)	3.55(-1)	5.30(-3)	6.40(-1)
^{47}Ti	0.	2.45(-1)	7.55(-1)	3.03(-1)	3.71(-2)	6.60(-1)
^{48}Ti	1.37(-1)	8.90(-2)	7.74(-1)	3.24(-1)	0.	6.76(-1)
^{49}Ti	4.73(-2)	1.97(-1)	7.55(-1)	3.08(-1)	0.	6.92(-1)
^{50}Ti	2.54(-1)	9.60(-3)	7.36(-1)	2.94(-1)	0.	7.06(-1)
^{51}Ti	2.07(-1)	7.39(-2)	7.19(-1)	2.79(-1)	0.	7.21(-1)
^{52}Ti	3.02(-1)	0.	6.98(-1)	2.64(-1)	0.	7.36(-1)
^{43}V	0.	1.00(0)	0.	0.	3.93(-1)	5.78(-1)
^{44}V	0.	3.02(-1)	6.98(-1)	0.	1.01(-1)	6.08(-1)
^{45}V	0.	2.83(-1)	7.17(-1)	3.68(-1)	8.80(-3)	6.22(-1)
^{46}V	0.	2.64(-1)	7.36(-1)	0.	2.50(-3)	9.97(-1)
^{47}V	0.	2.45(-1)	7.55(-1)	3.42(-1)	0.	6.58(-1)
^{48}V	0.	2.22(-1)	7.77(-1)	0.	0.	0.
^{49}V	2.23(-1)	2.17(-2)	7.55(-1)	3.09(-1)	0.	6.91(-1)
^{50}V	0.	1.30(-1)	8.70(-1)	0.	0.	0.
^{51}V	2.82(-1)	0.	7.17(-1)	2.79(-1)	0.	7.21(-1)
^{52}V	0.	0.	0.	2.64(-1)	0.	7.36(-1)
^{53}V	2.44(-1)	0.	7.56(-1)	2.35(-1)	0.	7.65(-1)
^{54}V	1.86(-1)	0.	8.14(-1)	2.06(-1)	0.	7.94(-1)
^{44}Cr	0.	1.00(0)	0.	0.	3.96(-1)	6.04(-1)
^{45}Cr	0.	1.00(0)	0.	0.	3.78(-1)	6.22(-1)
^{46}Cr	0.	9.96(-1)	3.70(-3)	0.	3.60(-1)	6.40(-1)
^{47}Cr	0.	9.98(-1)	2.20(-3)	0.	3.42(-1)	6.58(-1)
^{48}Cr	0.	7.15(-1)	2.85(-1)	1.48(-1)	1.02(-1)	7.49(-1)
^{49}Cr	0.	2.45(-1)	7.55(-1)	0.	3.07(-1)	6.93(-1)
^{50}Cr	0.	2.64(-1)	7.36(-1)	2.90(-1)	3.70(-3)	7.06(-1)
^{51}Cr	0.	2.83(-1)	7.17(-1)	0.	2.22(-1)	7.78(-1)
^{52}Cr	1.39(-1)	1.62(-1)	6.99(-1)	2.64(-1)	0.	7.36(-1)
^{53}Cr	0.	2.43(-1)	7.57(-1)	2.35(-1)	0.	7.65(-1)
^{54}Cr	1.77(-1)	9.70(-3)	8.13(-1)	2.06(-1)	0.	7.94(-1)
^{55}Cr	1.13(-1)	1.61(-2)	8.71(-1)	1.77(-1)	0.	8.23(-1)

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Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{56}Cr	7.15(-2)	0.	9.28(-1)	1.48(-1)	0.	8.52(-1)
^{46}Mn	0.	2.64(-1)	7.36(-1)	0.	3.60(-1)	6.40(-1)
^{47}Mn	0.	7.18(-1)	2.82(-1)	0.	3.42(-1)	6.58(-1)
^{48}Mn	0.	2.26(-1)	7.74(-1)	0.	3.03(-1)	6.97(-1)
^{49}Mn	0.	2.45(-1)	7.55(-1)	2.81(-1)	2.46(-2)	6.94(-1)
^{50}Mn	0.	2.64(-1)	7.36(-1)	0.	0.	9.99(-1)
^{51}Mn	0.	2.83(-1)	7.17(-1)	2.78(-1)	0.	7.22(-1)
^{52}Mn	0.	2.94(-1)	7.06(-1)	0.	0.	0.
^{53}Mn	1.87(-1)	5.59(-2)	7.57(-1)	2.35(-1)	0.	7.65(-1)
^{54}Mn	0.	1.46(-1)	8.54(-1)	2.03(-1)	0.	7.97(-1)
^{55}Mn	1.29(-1)	0.	8.71(-1)	1.77(-1)	0.	8.23(-1)
^{56}Mn	7.02(-2)	0.	9.29(-1)	1.48(-1)	0.	8.52(-1)
^{57}Mn	2.01(-1)	0.	7.99(-1)	2.15(-1)	0.	7.85(-1)
^{58}Mn	3.26(-1)	0.	6.74(-1)	2.80(-1)	0.	7.20(-1)
^{47}Fe	0.	1.00(0)	0.	0.	1.00(0)	0.
^{48}Fe	0.	1.00(0)	0.	0.	9.10(-1)	8.99(-2)
^{49}Fe	0.	1.00(0)	0.	0.	6.45(-1)	3.55(-1)
^{50}Fe	0.	1.00(0)	0.	0.	2.94(-1)	7.06(-1)
^{51}Fe	0.	1.00(0)	0.	0.	2.78(-1)	7.22(-1)
^{52}Fe	0.	9.19(-1)	8.11(-2)	8.83(-2)	1.12(-1)	8.00(-1)
^{53}Fe	0.	9.98(-1)	1.90(-3)	0.	2.30(-1)	7.70(-1)
^{54}Fe	0.	1.87(-1)	8.13(-1)	2.04(-1)	1.60(-3)	7.94(-1)
^{55}Fe	0.	1.29(-1)	8.71(-1)	0.	4.07(-2)	9.59(-1)
^{56}Fe	2.58(-2)	4.58(-2)	9.28(-1)	1.48(-1)	0.	8.52(-1)
^{57}Fe	1.05(-2)	1.90(-1)	8.00(-1)	2.13(-1)	0.	7.87(-1)
^{58}Fe	3.08(-1)	2.09(-2)	6.71(-1)	2.81(-1)	0.	7.19(-1)
^{59}Fe	1.66(-1)	2.56(-1)	5.78(-1)	3.46(-1)	0.	6.54(-1)
^{60}Fe	5.87(-1)	0.	4.13(-1)	4.13(-1)	0.	5.87(-1)
^{61}Fe	5.63(-1)	0.	4.37(-1)	4.17(-1)	0.	5.83(-1)
^{62}Fe	5.79(-1)	0.	4.21(-1)	1.00(0)	0.	0.
^{50}Co	0.	9.77(-1)	2.33(-2)	0.	2.94(-1)	7.06(-1)
^{51}Co	0.	1.00(0)	0.	0.	2.79(-1)	7.21(-1)
^{52}Co	0.	3.02(-1)	6.98(-1)	0.	2.26(-1)	7.74(-1)
^{53}Co	0.	8.30(-1)	1.70(-1)	0.	1.76(-1)	8.24(-1)
^{54}Co	0.	1.87(-1)	8.13(-1)	0.	0.	1.00(0)

CHARGED CURRENT BRANCHING RATIOS
($T_{\nu e} = 4.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{55}Co	0.	1.29(-1)	8.71(-1)	1.76(-1)	0.	8.24(-1)
^{56}Co	0.	7.07(-2)	9.29(-1)	0.	0.	0.
^{57}Co	1.56(-1)	4.32(-2)	8.00(-1)	2.15(-1)	0.	7.85(-1)
^{58}Co	0.	2.25(-1)	7.74(-1)	0.	0.	0.
^{59}Co	4.57(-1)	0.	5.43(-1)	3.47(-1)	0.	6.53(-1)
^{61}Co	5.83(-1)	0.	4.17(-1)	4.17(-1)	0.	5.83(-1)
^{62}Co	0.	0.	0.	4.20(-1)	0.	5.80(-1)
^{63}Co	5.74(-1)	0.	4.26(-1)	1.00(0)	0.	0.
^{64}Co	0.	0.	0.	9.83(-1)	0.	1.66(-2)
^{51}Ni	0.	1.00(0)	0.	0.	1.00(0)	0.
^{52}Ni	0.	1.00(0)	0.	0.	9.76(-1)	2.38(-2)
^{53}Ni	0.	1.00(0)	0.	0.	2.35(-1)	7.65(-1)
^{54}Ni	0.	1.00(0)	0.	0.	2.06(-1)	7.94(-1)
^{55}Ni	0.	1.00(0)	0.	0.	1.77(-1)	8.23(-1)
^{56}Ni	0.	9.83(-1)	1.66(-2)	2.54(-2)	1.22(-1)	8.53(-1)
^{57}Ni	0.	9.75(-1)	2.55(-2)	0.	2.08(-1)	7.92(-1)
^{58}Ni	0.	3.30(-1)	6.70(-1)	2.76(-1)	1.50(-3)	7.22(-1)
^{59}Ni	0.	4.59(-1)	5.41(-1)	0.	0.	9.99(-1)
^{60}Ni	0.	5.87(-1)	4.13(-1)	4.11(-1)	0.	5.89(-1)
^{61}Ni	0.	5.81(-1)	4.19(-1)	0.	0.	0.
^{62}Ni	3.86(-1)	1.87(-1)	4.27(-1)	4.22(-1)	0.	5.78(-1)
^{63}Ni	0.	5.40(-1)	4.60(-1)	4.24(-1)	0.	5.76(-1)
^{64}Ni	5.68(-1)	0.	4.31(-1)	1.00(0)	0.	0.
^{65}Ni	0.	1.56(-2)	9.84(-1)	9.93(-1)	0.	7.00(-3)
^{66}Ni	5.61(-1)	0.	4.39(-1)	1.00(0)	0.	0.
^{55}Cu	0.	1.00(0)	0.	0.	1.77(-1)	8.23(-1)
^{56}Cu	0.	5.87(-1)	4.13(-1)	0.	1.02(-1)	8.98(-1)
^{57}Cu	0.	2.01(-1)	7.99(-1)	0.	4.87(-2)	9.51(-1)
^{58}Cu	0.	3.30(-1)	6.70(-1)	0.	0.	0.
^{59}Cu	0.	4.59(-1)	5.41(-1)	0.	0.	0.
^{60}Cu	0.	5.72(-1)	4.16(-1)	0.	0.	0.
^{61}Cu	0.	5.63(-1)	4.23(-1)	4.16(-1)	0.	5.84(-1)
^{62}Cu	0.	4.55(-1)	5.20(-1)	0.	0.	0.
^{63}Cu	5.13(-1)	3.74(-2)	4.46(-1)	4.26(-1)	0.	5.74(-1)
^{64}Cu	0.	0.	9.90(-1)	4.17(-1)	0.	5.83(-1)

CHARGED CURRENT BRANCHING RATIOS
($T_{\nu e} = 4.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{65}Cu	5.64(-1)	0.	4.36(-1)	1.00(0)	0.	0.
^{66}Cu	0.	0.	1.00(0)	4.37(-1)	0.	5.63(-1)
^{67}Cu	5.57(-1)	0.	4.43(-1)	1.00(0)	0.	0.
^{68}Cu	0.	0.	0.	9.99(-1)	0.	1.30(-3)
^{57}Zn	0.	1.00(0)	0.	0.	2.15(-1)	7.85(-1)
^{58}Zn	0.	1.00(0)	0.	0.	2.81(-1)	7.19(-1)
^{59}Zn	0.	1.00(0)	0.	0.	3.47(-1)	6.53(-1)
^{60}Zn	0.	2.30(-1)	3.90(-3)	0.	3.04(-1)	6.96(-1)
^{61}Zn	0.	5.83(-1)	4.17(-1)	0.	4.13(-1)	5.87(-1)
^{62}Zn	0.	5.79(-1)	4.21(-1)	2.58(-1)	1.55(-1)	5.87(-1)
^{63}Zn	0.	5.74(-1)	4.25(-1)	0.	4.10(-1)	5.90(-1)
^{64}Zn	0.	5.69(-1)	4.31(-1)	4.27(-1)	3.20(-3)	5.70(-1)
^{65}Zn	0.	5.65(-1)	4.35(-1)	3.55(-1)	6.96(-2)	5.75(-1)
^{66}Zn	2.17(-2)	5.31(-1)	4.47(-1)	9.99(-1)	0.	1.00(-3)
^{67}Zn	0.	5.42(-1)	4.58(-1)	9.43(-1)	5.30(-3)	5.21(-2)
^{68}Zn	5.40(-1)	4.70(-3)	4.55(-1)	1.00(0)	0.	0.
^{69}Zn	0.	1.03(-1)	8.97(-1)	9.98(-1)	0.	1.70(-3)
^{70}Zn	5.41(-1)	0.	4.59(-1)	1.00(0)	0.	0.
^{71}Zn	0.	0.	0.	9.99(-1)	0.	0.
^{72}Zn	5.35(-1)	0.	4.65(-1)	1.00(0)	0.	0.
^{59}Ga	0.	9.99(-1)	0.	0.	3.47(-1)	6.53(-1)
^{60}Ga	0.	5.88(-1)	4.12(-1)	0.	3.76(-1)	6.22(-1)
^{61}Ga	0.	5.83(-1)	4.17(-1)	0.	3.94(-1)	6.01(-1)
^{62}Ga	0.	5.78(-1)	4.21(-1)	0.	2.72(-1)	7.14(-1)
^{63}Ga	0.	5.74(-1)	4.26(-1)	3.86(-1)	2.99(-2)	5.82(-1)
^{64}Ga	0.	5.59(-1)	4.39(-1)	0.	1.39(-1)	8.07(-1)
^{65}Ga	0.	5.56(-1)	4.41(-1)	4.33(-1)	1.20(-3)	5.66(-1)
^{66}Ga	0.	3.42(-1)	6.42(-1)	3.29(-1)	1.36(-2)	6.32(-1)
^{67}Ga	1.09(-1)	2.61(-1)	6.20(-1)	9.99(-1)	0.	0.
^{68}Ga	0.	0.	9.97(-1)	5.56(-1)	0.	4.41(-1)
^{69}Ga	5.40(-1)	0.	4.60(-1)	1.00(0)	0.	0.
^{70}Ga	0.	0.	1.00(0)	9.95(-1)	0.	4.20(-3)
^{71}Ga	5.38(-1)	0.	4.62(-1)	1.00(0)	0.	0.
^{72}Ga	0.	0.	0.	9.98(-1)	0.	1.50(-3)
^{73}Ga	5.30(-1)	0.	4.70(-1)	1.00(0)	0.	0.

CHARGED CURRENT BRANCHING RATIOS
($T_{ve} = 4.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{62}Ge	0.	1.00(0)	0.	0.	9.70(-1)	2.94(-2)
^{63}Ge	0.	1.00(0)	0.	0.	9.97(-1)	3.20(-3)
^{64}Ge	0.	5.70(-1)	4.30(-1)	1.80(-3)	9.81(-1)	1.68(-2)
^{65}Ge	0.	1.00(0)	0.	0.	9.94(-1)	4.70(-3)
^{66}Ge	0.	5.61(-1)	4.39(-1)	1.57(-1)	8.17(-1)	2.25(-2)
^{67}Ge	0.	5.57(-1)	4.43(-1)	1.05(-2)	9.74(-1)	1.12(-2)
^{68}Ge	0.	5.52(-1)	4.48(-1)	9.33(-1)	6.33(-2)	2.50(-3)
^{69}Ge	0.	5.47(-1)	4.53(-1)	3.74(-1)	6.00(-1)	1.89(-2)
^{70}Ge	0.	5.36(-1)	4.64(-1)	9.92(-1)	7.60(-3)	0.
^{71}Ge	0.	5.29(-1)	4.71(-1)	9.45(-1)	4.97(-2)	3.20(-3)
^{72}Ge	3.29(-1)	1.47(-1)	5.24(-1)	9.98(-1)	1.30(-3)	0.
^{73}Ge	0.	3.24(-1)	6.76(-1)	9.84(-1)	1.41(-2)	1.60(-3)
^{74}Ge	5.09(-1)	0.	4.91(-1)	1.00(0)	0.	0.
^{75}Ge	0.	0.	0.	9.98(-1)	1.80(-3)	0.
^{76}Ge	5.15(-1)	0.	4.85(-1)	1.00(0)	0.	0.
^{77}Ge	0.	0.	0.	9.99(-1)	0.	0.
^{78}Ge	9.50(-1)	0.	5.03(-2)	1.00(0)	0.	0.
^{65}As	0.	5.66(-1)	4.34(-1)	3.61(-2)	8.78(-1)	7.85(-2)
^{66}As	0.	5.61(-1)	4.39(-1)	0.	5.14(-1)	4.43(-1)
^{67}As	0.	5.57(-1)	4.43(-1)	7.25(-1)	2.21(-1)	3.82(-2)
^{68}As	0.	5.38(-1)	4.60(-1)	1.22(-2)	4.90(-1)	3.64(-1)
^{69}As	0.	5.34(-1)	4.66(-1)	9.79(-1)	1.69(-2)	1.50(-3)
^{70}As	0.	3.07(-1)	6.88(-1)	4.45(-1)	2.12(-1)	2.15(-1)
^{71}As	0.	1.46(-1)	8.53(-1)	9.96(-1)	2.90(-3)	0.
^{72}As	0.	0.	1.00(0)	9.57(-1)	1.48(-2)	1.47(-2)
^{73}As	3.30(-1)	0.	6.70(-1)	9.99(-1)	0.	0.
^{74}As	0.	0.	0.	9.93(-1)	1.70(-3)	3.90(-3)
^{75}As	4.79(-1)	0.	5.21(-1)	1.00(0)	0.	0.
^{76}As	0.	0.	0.	9.98(-1)	0.	1.10(-3)
^{77}As	5.09(-1)	0.	4.91(-1)	1.00(0)	0.	0.
^{78}As	0.	0.	0.	9.99(-1)	0.	0.
^{67}Se	0.	1.00(0)	0.	0.	9.99(-1)	0.
^{68}Se	0.	9.99(-1)	0.	1.53(-2)	9.80(-1)	0.
^{69}Se	0.	1.00(0)	0.	0.	9.96(-1)	0.
^{70}Se	0.	9.37(-1)	6.27(-2)	2.74(-1)	7.18(-1)	1.30(-3)

CHARGED CURRENT BRANCHING RATIOS
($T_{\nu e} = 4.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{71}Se	0.	9.68(-1)	3.22(-2)	2.01(-2)	9.70(-1)	1.50(-3)
^{72}Se	0.	5.58(-1)	4.42(-1)	8.13(-1)	1.82(-1)	0.
^{73}Se	0.	8.99(-1)	1.01(-1)	2.50(-1)	7.33(-1)	2.70(-3)
^{74}Se	0.	5.10(-1)	4.90(-1)	9.63(-1)	3.48(-2)	0.
^{75}Se	0.	5.08(-1)	4.92(-1)	7.48(-1)	2.45(-1)	2.50(-3)
^{76}Se	0.	2.01(-1)	7.99(-1)	9.92(-1)	8.20(-3)	0.
^{77}Se	0.	2.37(-1)	7.63(-1)	9.46(-1)	5.17(-2)	1.20(-3)
^{78}Se	0.	0.	0.	9.98(-1)	2.00(-3)	0.
^{79}Se	0.	0.	0.	9.91(-1)	8.70(-3)	0.
^{80}Se	0.	0.	0.	9.99(-1)	0.	0.
^{68}Br	0.	9.57(-1)	4.28(-2)	0.	9.73(-1)	5.10(-3)
^{69}Br	0.	9.37(-1)	6.35(-2)	9.26(-2)	8.87(-1)	3.10(-3)
^{70}Br	0.	5.42(-1)	4.58(-1)	1.20(-3)	9.11(-1)	9.60(-3)
^{71}Br	0.	8.23(-1)	1.77(-1)	6.68(-1)	3.08(-1)	3.20(-3)
^{72}Br	0.	4.99(-1)	5.01(-1)	6.13(-2)	7.62(-1)	2.91(-2)
^{73}Br	0.	3.88(-1)	6.12(-1)	9.67(-1)	2.71(-2)	0.
^{74}Br	0.	6.99(-2)	9.30(-1)	6.23(-1)	2.43(-1)	2.45(-2)
^{75}Br	0.	0.	0.	9.94(-1)	4.60(-3)	0.
^{76}Br	0.	0.	0.	9.42(-1)	3.51(-2)	6.60(-3)
^{77}Br	0.	0.	0.	9.99(-1)	1.00(-3)	0.
^{78}Br	0.	0.	0.	9.87(-1)	7.00(-3)	2.40(-3)
^{79}Br	0.	0.	0.	9.99(-1)	0.	0.
^{80}Br	0.	0.	0.	9.96(-1)	1.50(-3)	1.00(-3)
^{69}Kr	0.	1.00(0)	0.	0.	1.00(0)	0.
^{70}Kr	0.	1.00(0)	0.	0.	9.95(-1)	0.
^{71}Kr	0.	1.00(0)	0.	0.	9.97(-1)	0.
^{72}Kr	0.	1.00(0)	0.	4.41(-2)	9.50(-1)	0.
^{73}Kr	0.	1.00(0)	0.	2.70(-3)	9.94(-1)	0.
^{74}Kr	0.	9.95(-1)	4.70(-3)	3.25(-1)	6.68(-1)	0.
^{75}Kr	0.	9.94(-1)	6.20(-3)	4.04(-2)	9.52(-1)	0.
^{76}Kr	0.	8.64(-1)	1.36(-1)	7.28(-1)	2.68(-1)	0.
^{77}Kr	0.	9.75(-1)	2.48(-2)	3.02(-1)	6.91(-1)	1.40(-3)
^{78}Kr	0.	8.57(-1)	1.43(-1)	9.30(-1)	6.88(-2)	0.
^{79}Kr	0.	9.20(-1)	7.96(-2)	6.52(-1)	3.41(-1)	1.70(-3)
^{80}Kr	0.	2.48(-1)	7.52(-1)	9.81(-1)	1.84(-2)	0.