

CHARGED CURRENT BRANCHING RATIOS
($T_{ve} = 6.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{12}C	0.	4.06(-1)	5.71(-1)	4.04(-1)	1.10(-3)	5.89(-1)
^{13}C	0.	1.71(-1)	8.07(-1)	1.36(-1)	0.	8.41(-1)
^{14}C	4.11(-2)	1.15(-1)	8.18(-1)	9.72(-1)	0.	2.40(-2)
^{13}N	0.	1.23(-1)	8.57(-1)	1.81(-1)	0.	7.93(-1)
^{14}N	0.	9.52(-1)	1.88(-2)	9.01(-1)	0.	5.59(-2)
^{15}N	1.44(-2)	1.70(-1)	7.45(-1)	9.98(-1)	0.	0.
^{14}O	0.	9.98(-1)	0.	4.57(-2)	1.45(-1)	7.91(-1)
^{15}O	0.	9.94(-1)	0.	1.10(-1)	1.32(-1)	6.61(-1)
^{16}O	0.	9.64(-1)	2.43(-2)	6.42(-1)	3.10(-3)	3.43(-1)
^{17}O	0.	9.02(-1)	0.	3.86(-1)	0.	6.11(-1)
^{18}O	2.85(-2)	1.07(-1)	4.99(-1)	6.47(-1)	0.	3.53(-1)
^{17}F	0.	8.48(-1)	1.38(-1)	3.57(-1)	0.	4.74(-1)
^{18}F	0.	3.13(-1)	3.98(-1)	1.60(-1)	0.	3.53(-1)
^{19}F	0.	5.75(-2)	2.69(-1)	7.68(-1)	0.	2.32(-1)
^{17}Ne	0.	1.77(-2)	1.49(-2)	0.	9.00(-1)	0.
^{18}Ne	0.	9.58(-1)	4.16(-2)	2.47(-2)	1.16(-1)	4.51(-1)
^{19}Ne	0.	9.91(-1)	0.	0.	8.70(-3)	2.32(-1)
^{20}Ne	0.	9.20(-1)	7.83(-2)	9.06(-1)	0.	9.30(-2)
^{21}Ne	0.	7.66(-1)	2.33(-1)	8.02(-1)	0.	1.98(-1)
^{22}Ne	0.	6.73(-1)	3.27(-1)	7.16(-1)	0.	2.84(-1)
^{23}Ne	0.	5.29(-1)	4.71(-1)	6.30(-1)	0.	3.70(-1)
^{19}Na	0.	9.91(-1)	8.60(-3)	0.	5.50(-2)	2.32(-1)
^{20}Na	0.	8.60(-1)	1.40(-1)	0.	0.	1.11(-1)
^{21}Na	0.	7.66(-1)	2.34(-1)	8.03(-1)	0.	1.97(-1)
^{22}Na	0.	6.73(-1)	3.27(-1)	0.	0.	0.
^{23}Na	0.	5.79(-1)	4.21(-1)	6.30(-1)	0.	3.70(-1)
^{24}Na	0.	0.	0.	5.43(-1)	0.	4.57(-1)
^{25}Na	4.47(-1)	0.	5.53(-1)	5.01(-1)	0.	4.99(-1)
^{20}Mg	0.	1.00(0)	0.	0.	8.89(-1)	1.10(-1)
^{21}Mg	0.	1.00(0)	0.	0.	9.93(-1)	6.60(-3)
^{22}Mg	0.	1.00(0)	0.	0.	7.16(-1)	2.84(-1)
^{23}Mg	0.	1.00(0)	0.	0.	3.47(-1)	6.53(-1)
^{24}Mg	0.	9.50(-1)	4.98(-2)	6.24(-1)	0.	3.74(-1)
^{25}Mg	0.	1.00(0)	0.	5.01(-1)	0.	4.99(-1)
^{26}Mg	0.	4.07(-1)	5.93(-1)	4.59(-1)	0.	5.41(-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.	3.64(-1)	6.36(-1)	4.17(-1)	0.	5.83(-1)
^{28}Mg	3.27(-1)	0.	6.73(-1)	3.75(-1)	0.	6.25(-1)
^{22}Al	0.	1.00(0)	0.	0.	7.16(-1)	2.84(-1)
^{23}Al	0.	1.00(0)	0.	0.	6.28(-1)	3.72(-1)
^{24}Al	0.	9.97(-1)	3.20(-3)	0.	0.	0.
^{25}Al	0.	9.86(-1)	1.42(-2)	5.01(-1)	0.	4.99(-1)
^{26}Al	0.	4.07(-1)	5.93(-1)	0.	0.	0.
^{27}Al	0.	3.66(-1)	6.34(-1)	4.17(-1)	0.	5.83(-1)
^{28}Al	0.	0.	0.	3.75(-1)	0.	6.25(-1)
^{29}Al	3.37(-1)	0.	6.63(-1)	3.88(-1)	0.	6.12(-1)
^{30}Al	3.44(-1)	0.	6.56(-1)	4.02(-1)	0.	5.98(-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.	1.00(0)	0.
^{26}Si	0.	1.00(0)	0.	0.	4.59(-1)	5.41(-1)
^{27}Si	0.	1.00(0)	0.	0.	3.72(-1)	6.28(-1)
^{28}Si	0.	9.72(-1)	2.85(-2)	3.61(-1)	0.	6.39(-1)
^{29}Si	0.	9.99(-1)	1.10(-3)	3.88(-1)	0.	6.12(-1)
^{30}Si	0.	3.47(-1)	6.53(-1)	4.02(-1)	0.	5.98(-1)
^{31}Si	0.	3.57(-1)	6.43(-1)	4.15(-1)	0.	5.85(-1)
^{32}Si	3.22(-1)	4.50(-2)	6.33(-1)	1.00(0)	0.	0.
^{27}P	0.	1.00(0)	0.	0.	4.14(-1)	5.86(-1)
^{28}P	0.	1.00(0)	0.	0.	0.	0.
^{29}P	0.	8.49(-1)	1.51(-1)	3.88(-1)	0.	6.12(-1)
^{30}P	0.	3.47(-1)	6.53(-1)	0.	0.	0.
^{31}P	0.	3.57(-1)	6.43(-1)	4.15(-1)	0.	5.85(-1)
^{32}P	0.	2.59(-1)	6.34(-1)	4.28(-1)	0.	5.72(-1)
^{33}P	3.91(-1)	1.79(-2)	5.71(-1)	4.94(-1)	0.	5.06(-1)
^{34}P	3.60(-1)	7.70(-3)	5.13(-1)	5.60(-1)	0.	4.40(-1)
^{28}S	0.	1.00(0)	0.	0.	9.99(-1)	1.40(-3)
^{29}S	0.	1.00(0)	0.	0.	9.22(-1)	7.79(-2)
^{30}S	0.	1.00(0)	0.	0.	4.02(-1)	5.98(-1)
^{31}S	0.	1.00(0)	0.	0.	4.15(-1)	5.85(-1)
^{32}S	0.	9.91(-1)	9.10(-3)	3.52(-1)	6.33(-2)	5.84(-1)
^{33}S	0.	9.98(-1)	0.	3.68(-1)	1.25(-1)	5.07(-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	3.20(-3)	4.77(-1)	5.10(-1)	5.60(-1)	0.	4.40(-1)
^{35}S	0.	5.32(-1)	4.48(-1)	6.25(-1)	0.	3.75(-1)
^{36}S	4.42(-1)	1.62(-1)	3.87(-1)	6.91(-1)	0.	3.09(-1)
^{37}S	2.71(-1)	2.98(-1)	4.15(-1)	6.43(-1)	0.	3.57(-1)
^{38}S	9.98(-1)	0.	0.	1.00(0)	0.	0.
^{31}Cl	0.	1.00(0)	0.	0.	4.15(-1)	5.85(-1)
^{32}Cl	0.	1.00(0)	0.	0.	2.99(-1)	5.72(-1)
^{33}Cl	0.	4.29(-1)	5.71(-1)	4.43(-1)	2.43(-2)	5.06(-1)
^{34}Cl	0.	4.86(-1)	5.10(-1)	4.04(-1)	1.28(-2)	4.43(-1)
^{35}Cl	0.	5.29(-1)	4.48(-1)	6.24(-1)	0.	3.74(-1)
^{36}Cl	0.	4.54(-1)	3.87(-1)	6.88(-1)	0.	3.09(-1)
^{37}Cl	4.82(-1)	7.46(-2)	4.15(-1)	1.00(0)	0.	0.
^{38}Cl	1.83(-1)	1.10(-1)	4.48(-1)	9.96(-1)	0.	3.50(-3)
^{39}Cl	9.96(-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	4.96(-1)	0.	5.04(-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.	9.98(-1)	0.
^{34}Ar	0.	1.00(0)	0.	4.40(-3)	5.42(-1)	4.40(-1)
^{35}Ar	0.	1.00(0)	0.	0.	6.00(-1)	3.75(-1)
^{36}Ar	0.	9.15(-1)	8.20(-2)	4.59(-1)	1.68(-1)	3.51(-1)
^{37}Ar	0.	9.98(-1)	0.	3.02(-1)	3.16(-1)	3.57(-1)
^{38}Ar	1.40(-3)	9.93(-1)	0.	9.95(-1)	1.80(-3)	0.
^{39}Ar	0.	9.94(-1)	0.	9.75(-1)	5.20(-3)	0.
^{40}Ar	9.01(-1)	8.45(-2)	0.	1.00(0)	0.	0.
^{41}Ar	2.75(-1)	6.10(-1)	4.89(-2)	1.00(0)	0.	0.
^{42}Ar	4.94(-1)	2.50(-3)	5.04(-1)	1.00(0)	0.	0.
^{43}Ar	4.85(-1)	8.90(-3)	5.06(-1)	5.85(-1)	0.	4.15(-1)
^{44}Ar	4.93(-1)	0.	5.07(-1)	6.14(-1)	0.	3.86(-1)
^{45}Ar	4.49(-1)	0.	5.51(-1)	5.91(-1)	0.	4.09(-1)
^{46}Ar	4.05(-1)	0.	5.95(-1)	5.69(-1)	0.	4.31(-1)
^{35}K	0.	1.00(0)	0.	0.	5.97(-1)	3.74(-1)
^{36}K	0.	6.13(-1)	3.86(-1)	0.	5.03(-1)	3.09(-1)
^{37}K	0.	9.97(-1)	0.	5.18(-1)	8.57(-2)	3.57(-1)

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^{38}K	0.	9.92(-1)	0.	2.07(-1)	1.21(-1)	4.07(-1)
^{39}K	0.	9.94(-1)	0.	9.91(-1)	0.	0.
^{40}K	0.	9.46(-1)	4.20(-3)	8.27(-1)	0.	0.
^{41}K	9.86(-1)	9.90(-3)	0.	1.00(0)	0.	0.
^{42}K	2.45(-1)	9.30(-3)	5.07(-1)	5.56(-1)	0.	4.44(-1)
^{43}K	4.94(-1)	0.	5.05(-1)	5.85(-1)	0.	4.15(-1)
^{44}K	4.89(-1)	0.	5.11(-1)	6.13(-1)	0.	3.87(-1)
^{45}K	4.49(-1)	0.	5.51(-1)	5.91(-1)	0.	4.09(-1)
^{46}K	4.05(-1)	0.	5.95(-1)	5.69(-1)	0.	4.31(-1)
^{36}Ca	0.	1.00(0)	0.	0.	9.98(-1)	0.
^{37}Ca	0.	1.00(0)	0.	0.	9.97(-1)	0.
^{38}Ca	0.	1.00(0)	0.	4.90(-3)	9.84(-1)	0.
^{39}Ca	0.	9.99(-1)	0.	0.	9.84(-1)	0.
^{40}Ca	0.	9.97(-1)	0.	8.45(-1)	1.06(-1)	0.
^{41}Ca	0.	1.00(0)	0.	4.41(-1)	4.54(-1)	4.70(-3)
^{42}Ca	4.00(-3)	9.88(-1)	1.20(-3)	5.51(-1)	4.60(-3)	4.43(-1)
^{43}Ca	0.	4.47(-1)	5.05(-1)	5.70(-1)	1.48(-2)	4.15(-1)
^{44}Ca	3.15(-1)	1.75(-1)	5.07(-1)	6.13(-1)	0.	3.87(-1)
^{45}Ca	1.21(-1)	3.26(-1)	5.52(-1)	5.91(-1)	0.	4.09(-1)
^{46}Ca	3.87(-1)	1.77(-2)	5.95(-1)	5.69(-1)	0.	4.31(-1)
^{47}Ca	3.02(-1)	5.92(-2)	6.39(-1)	5.46(-1)	0.	4.54(-1)
^{48}Ca	3.13(-1)	3.90(-3)	6.83(-1)	5.24(-1)	0.	4.76(-1)
^{49}Ca	3.19(-1)	1.17(-2)	6.69(-1)	5.04(-1)	0.	4.96(-1)
^{40}Sc	0.	9.94(-1)	0.	0.	8.60(-1)	2.40(-3)
^{41}Sc	0.	9.96(-1)	0.	9.73(-1)	1.61(-2)	0.
^{42}Sc	0.	9.95(-1)	0.	2.80(-1)	1.92(-2)	4.45(-1)
^{43}Sc	0.	4.58(-1)	5.06(-1)	5.84(-1)	0.	4.15(-1)
^{44}Sc	0.	1.27(-1)	5.10(-1)	6.10(-1)	0.	3.90(-1)
^{45}Sc	4.20(-1)	2.05(-2)	5.51(-1)	5.91(-1)	0.	4.09(-1)
^{46}Sc	2.36(-1)	1.19(-1)	6.09(-1)	5.68(-1)	0.	4.32(-1)
^{47}Sc	3.60(-1)	1.10(-3)	6.39(-1)	5.47(-1)	0.	4.53(-1)
^{48}Sc	3.13(-1)	3.50(-3)	6.83(-1)	5.23(-1)	0.	4.77(-1)
^{49}Sc	3.31(-1)	0.	6.69(-1)	5.04(-1)	0.	4.96(-1)
^{50}Sc	3.45(-1)	0.	6.55(-1)	4.84(-1)	0.	5.16(-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.	9.40(-3)	9.77(-1)	0.
^{43}Ti	0.	1.00(0)	0.	3.80(-3)	5.15(-1)	4.15(-1)
^{44}Ti	0.	6.77(-1)	3.22(-1)	3.35(-1)	1.84(-1)	4.70(-1)
^{45}Ti	0.	4.48(-1)	5.51(-1)	1.07(-1)	4.83(-1)	4.10(-1)
^{46}Ti	2.50(-3)	4.01(-1)	5.95(-1)	5.56(-1)	1.26(-2)	4.31(-1)
^{47}Ti	9.20(-3)	3.52(-1)	6.39(-1)	4.85(-1)	5.94(-2)	4.55(-1)
^{48}Ti	1.91(-1)	1.26(-1)	6.83(-1)	5.24(-1)	0.	4.76(-1)
^{49}Ti	1.14(-1)	2.16(-1)	6.69(-1)	5.03(-1)	0.	4.97(-1)
^{50}Ti	3.19(-1)	2.58(-2)	6.55(-1)	4.84(-1)	0.	5.16(-1)
^{51}Ti	2.61(-1)	9.71(-2)	6.42(-1)	4.64(-1)	0.	5.36(-1)
^{52}Ti	3.72(-1)	0.	6.27(-1)	4.44(-1)	0.	5.56(-1)
^{43}V	0.	1.00(0)	0.	2.00(-3)	5.31(-1)	4.15(-1)
^{44}V	0.	4.93(-1)	5.07(-1)	0.	1.58(-1)	3.89(-1)
^{45}V	0.	4.48(-1)	5.51(-1)	5.66(-1)	2.01(-2)	4.09(-1)
^{46}V	0.	4.04(-1)	5.95(-1)	0.	9.14(-2)	8.95(-1)
^{47}V	6.00(-3)	3.55(-1)	6.39(-1)	5.46(-1)	0.	4.54(-1)
^{48}V	0.	3.02(-1)	6.84(-1)	4.54(-1)	0.	5.46(-1)
^{49}V	2.83(-1)	4.80(-2)	6.69(-1)	5.04(-1)	0.	4.96(-1)
^{50}V	2.32(-1)	1.06(-1)	6.61(-1)	4.70(-1)	0.	5.30(-1)
^{51}V	3.57(-1)	2.10(-3)	6.41(-1)	4.64(-1)	0.	5.36(-1)
^{52}V	3.61(-1)	2.80(-3)	6.36(-1)	4.44(-1)	0.	5.56(-1)
^{53}V	3.24(-1)	0.	6.76(-1)	4.16(-1)	0.	5.84(-1)
^{54}V	2.75(-1)	0.	7.25(-1)	3.88(-1)	0.	6.12(-1)
^{44}Cr	0.	1.00(0)	0.	0.	6.13(-1)	3.86(-1)
^{45}Cr	0.	1.00(0)	0.	0.	5.91(-1)	4.09(-1)
^{46}Cr	0.	1.00(0)	0.	0.	5.69(-1)	4.31(-1)
^{47}Cr	0.	1.00(0)	0.	0.	5.46(-1)	4.54(-1)
^{48}Cr	0.	8.07(-1)	1.92(-1)	2.83(-1)	1.90(-1)	5.27(-1)
^{49}Cr	0.	9.27(-1)	7.27(-2)	0.	5.02(-1)	4.98(-1)
^{50}Cr	3.70(-3)	3.41(-1)	6.55(-1)	4.75(-1)	9.20(-3)	5.16(-1)
^{51}Cr	0.	3.59(-1)	6.41(-1)	0.	4.16(-1)	5.84(-1)
^{52}Cr	1.89(-1)	1.84(-1)	6.27(-1)	4.44(-1)	0.	5.56(-1)
^{53}Cr	2.53(-2)	2.98(-1)	6.76(-1)	4.16(-1)	0.	5.84(-1)
^{54}Cr	2.57(-1)	1.87(-2)	7.24(-1)	3.88(-1)	0.	6.12(-1)
^{55}Cr	1.95(-1)	3.18(-2)	7.73(-1)	3.59(-1)	0.	6.41(-1)

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^{56}Cr	1.79(-1)	0.	8.21(-1)	3.31(-1)	0.	6.69(-1)
^{46}Mn	0.	4.05(-1)	5.95(-1)	0.	5.69(-1)	4.31(-1)
^{47}Mn	0.	9.95(-1)	5.20(-3)	0.	5.46(-1)	4.54(-1)
^{48}Mn	0.	3.17(-1)	6.83(-1)	0.	5.04(-1)	4.96(-1)
^{49}Mn	0.	3.31(-1)	6.69(-1)	4.64(-1)	3.81(-2)	4.98(-1)
^{50}Mn	0.	3.45(-1)	6.55(-1)	0.	1.69(-2)	9.83(-1)
^{51}Mn	0.	3.59(-1)	6.41(-1)	4.64(-1)	0.	5.36(-1)
^{52}Mn	0.	3.69(-1)	6.31(-1)	0.	0.	0.
^{53}Mn	2.42(-1)	8.14(-2)	6.77(-1)	4.16(-1)	0.	5.84(-1)
^{54}Mn	0.	2.49(-1)	7.51(-1)	3.84(-1)	0.	6.16(-1)
^{55}Mn	2.26(-1)	1.20(-3)	7.73(-1)	3.59(-1)	0.	6.41(-1)
^{56}Mn	1.75(-1)	0.	8.24(-1)	3.31(-1)	0.	6.69(-1)
^{57}Mn	2.94(-1)	0.	7.06(-1)	3.84(-1)	0.	6.16(-1)
^{58}Mn	4.07(-1)	0.	5.93(-1)	4.37(-1)	0.	5.63(-1)
^{47}Fe	0.	1.00(0)	0.	0.	1.00(0)	0.
^{48}Fe	0.	1.00(0)	0.	0.	9.66(-1)	3.38(-2)
^{49}Fe	0.	1.00(0)	0.	0.	8.44(-1)	1.56(-1)
^{50}Fe	0.	1.00(0)	0.	0.	4.84(-1)	5.16(-1)
^{51}Fe	0.	1.00(0)	0.	0.	4.64(-1)	5.36(-1)
^{52}Fe	0.	9.50(-1)	5.04(-2)	1.75(-1)	2.18(-1)	6.06(-1)
^{53}Fe	0.	9.99(-1)	1.00(-3)	0.	4.10(-1)	5.90(-1)
^{54}Fe	0.	2.76(-1)	7.24(-1)	3.83(-1)	4.00(-3)	6.13(-1)
^{55}Fe	0.	2.27(-1)	7.73(-1)	0.	1.06(-1)	8.94(-1)
^{56}Fe	6.44(-2)	1.14(-1)	8.21(-1)	3.31(-1)	0.	6.69(-1)
^{57}Fe	1.96(-2)	2.74(-1)	7.06(-1)	3.83(-1)	0.	6.17(-1)
^{58}Fe	3.77(-1)	3.24(-2)	5.90(-1)	4.38(-1)	0.	5.62(-1)
^{59}Fe	3.10(-1)	2.05(-1)	4.84(-1)	4.90(-1)	0.	5.10(-1)
^{60}Fe	6.41(-1)	0.	3.59(-1)	5.45(-1)	0.	4.55(-1)
^{61}Fe	6.28(-1)	0.	3.72(-1)	5.42(-1)	0.	4.58(-1)
^{62}Fe	6.27(-1)	0.	3.73(-1)	1.00(0)	0.	0.
^{50}Co	0.	9.97(-1)	3.20(-3)	0.	4.84(-1)	5.16(-1)
^{51}Co	0.	1.00(0)	0.	0.	4.64(-1)	5.36(-1)
^{52}Co	0.	9.24(-1)	7.58(-2)	0.	4.09(-1)	5.91(-1)
^{53}Co	0.	9.61(-1)	3.87(-2)	0.	3.51(-1)	6.49(-1)
^{54}Co	0.	2.76(-1)	7.24(-1)	0.	2.80(-3)	9.97(-1)

CHARGED CURRENT BRANCHING RATIOS
($T_{ve} = 6.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{55}Co	0.	2.27(-1)	7.73(-1)	3.57(-1)	0.	6.43(-1)
^{56}Co	0.	1.77(-1)	8.23(-1)	0.	0.	0.
^{57}Co	2.27(-1)	6.62(-2)	7.07(-1)	3.84(-1)	0.	6.16(-1)
^{58}Co	0.	3.39(-1)	6.60(-1)	0.	0.	0.
^{59}Co	5.24(-1)	0.	4.76(-1)	4.91(-1)	0.	5.09(-1)
^{60}Co	0.	0.	1.00(0)	0.	0.	0.
^{61}Co	6.34(-1)	0.	3.66(-1)	5.42(-1)	0.	4.58(-1)
^{62}Co	0.	0.	0.	5.39(-1)	0.	4.61(-1)
^{63}Co	6.20(-1)	0.	3.80(-1)	1.00(0)	0.	0.
^{64}Co	5.77(-1)	0.	4.23(-1)	9.86(-1)	0.	1.42(-2)
^{51}Ni	0.	1.00(0)	0.	0.	1.00(0)	0.
^{52}Ni	0.	1.00(0)	0.	0.	9.85(-1)	1.52(-2)
^{53}Ni	0.	1.00(0)	0.	0.	4.16(-1)	5.84(-1)
^{54}Ni	0.	1.00(0)	0.	0.	3.87(-1)	6.13(-1)
^{55}Ni	0.	1.00(0)	0.	0.	3.58(-1)	6.42(-1)
^{56}Ni	0.	9.59(-1)	4.09(-2)	5.66(-2)	2.72(-1)	6.72(-1)
^{57}Ni	0.	9.92(-1)	8.00(-3)	0.	3.74(-1)	6.26(-1)
^{58}Ni	0.	4.10(-1)	5.90(-1)	4.31(-1)	3.10(-3)	5.66(-1)
^{59}Ni	0.	5.26(-1)	4.74(-1)	0.	9.30(-3)	9.91(-1)
^{60}Ni	2.41(-2)	6.17(-1)	3.59(-1)	5.43(-1)	0.	4.57(-1)
^{61}Ni	0.	6.33(-1)	3.67(-1)	0.	0.	0.
^{62}Ni	4.17(-1)	2.07(-1)	3.75(-1)	5.40(-1)	0.	4.60(-1)
^{63}Ni	0.	6.07(-1)	3.93(-1)	5.36(-1)	0.	4.64(-1)
^{64}Ni	6.09(-1)	2.80(-3)	3.88(-1)	9.99(-1)	0.	0.
^{65}Ni	2.95(-1)	1.22(-1)	5.83(-1)	9.94(-1)	0.	6.00(-3)
^{66}Ni	5.99(-1)	0.	4.01(-1)	1.00(0)	0.	0.
^{55}Cu	0.	1.00(0)	0.	0.	3.59(-1)	6.41(-1)
^{56}Cu	0.	1.79(-1)	8.21(-1)	0.	2.27(-1)	7.73(-1)
^{57}Cu	0.	2.95(-1)	7.05(-1)	0.	1.13(-1)	8.87(-1)
^{58}Cu	0.	4.10(-1)	5.90(-1)	0.	0.	0.
^{59}Cu	0.	5.26(-1)	4.74(-1)	0.	0.	0.
^{60}Cu	0.	6.15(-1)	3.61(-1)	0.	0.	0.
^{61}Cu	3.31(-2)	5.72(-1)	3.69(-1)	5.41(-1)	0.	4.59(-1)
^{62}Cu	0.	5.58(-1)	4.04(-1)	0.	0.	0.
^{63}Cu	5.56(-1)	5.39(-2)	3.86(-1)	5.38(-1)	0.	4.62(-1)

CHARGED CURRENT BRANCHING RATIOS
($T_{\nu e} = 6.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{64}Cu	0.	9.92(-2)	8.48(-1)	5.24(-1)	0.	4.76(-1)
^{65}Cu	6.05(-1)	0.	3.95(-1)	1.00(0)	0.	0.
^{66}Cu	0.	0.	9.97(-1)	5.29(-1)	0.	4.71(-1)
^{67}Cu	5.92(-1)	0.	4.08(-1)	1.00(0)	0.	0.
^{68}Cu	0.	0.	0.	9.99(-1)	0.	1.20(-3)
^{57}Zn	0.	1.00(0)	0.	0.	3.84(-1)	6.16(-1)
^{58}Zn	0.	1.00(0)	0.	0.	4.38(-1)	5.62(-1)
^{59}Zn	0.	1.00(0)	0.	0.	4.91(-1)	5.09(-1)
^{60}Zn	0.	2.70(-1)	2.30(-3)	0.	4.69(-1)	5.31(-1)
^{61}Zn	0.	9.96(-1)	3.50(-3)	0.	5.39(-1)	4.61(-1)
^{62}Zn	0.	6.27(-1)	3.73(-1)	3.60(-1)	1.75(-1)	4.65(-1)
^{63}Zn	0.	6.20(-1)	3.80(-1)	0.	5.25(-1)	4.75(-1)
^{64}Zn	0.	6.12(-1)	3.88(-1)	5.29(-1)	6.00(-3)	4.65(-1)
^{65}Zn	0.	6.05(-1)	3.95(-1)	4.30(-1)	9.46(-2)	4.75(-1)
^{66}Zn	1.33(-1)	4.61(-1)	4.05(-1)	9.99(-1)	0.	0.
^{67}Zn	0.	5.84(-1)	4.16(-1)	9.47(-1)	8.00(-3)	4.51(-2)
^{68}Zn	5.70(-1)	1.07(-2)	4.19(-1)	1.00(0)	0.	0.
^{69}Zn	0.	3.23(-1)	6.76(-1)	9.97(-1)	0.	1.60(-3)
^{70}Zn	5.69(-1)	0.	4.31(-1)	1.00(0)	0.	0.
^{71}Zn	0.	0.	0.	9.99(-1)	0.	0.
^{72}Zn	5.56(-1)	0.	4.44(-1)	1.00(0)	0.	0.
^{59}Ga	0.	1.00(0)	0.	0.	4.91(-1)	5.09(-1)
^{60}Ga	0.	6.41(-1)	3.58(-1)	0.	5.19(-1)	4.78(-1)
^{61}Ga	0.	6.34(-1)	3.66(-1)	0.	5.21(-1)	4.71(-1)
^{62}Ga	0.	6.25(-1)	3.73(-1)	0.	4.23(-1)	5.54(-1)
^{63}Ga	0.	6.20(-1)	3.80(-1)	4.84(-1)	4.44(-2)	4.68(-1)
^{64}Ga	0.	6.03(-1)	3.92(-1)	0.	2.54(-1)	6.62(-1)
^{65}Ga	0.	5.97(-1)	3.98(-1)	5.30(-1)	2.30(-3)	4.67(-1)
^{66}Ga	0.	4.98(-1)	4.78(-1)	4.28(-1)	2.10(-2)	5.21(-1)
^{67}Ga	4.64(-1)	1.05(-1)	4.27(-1)	9.99(-1)	0.	0.
^{68}Ga	0.	1.84(-2)	9.67(-1)	6.10(-1)	1.20(-3)	3.86(-1)
^{69}Ga	5.74(-1)	0.	4.26(-1)	1.00(0)	0.	0.
^{70}Ga	0.	0.	1.00(0)	9.95(-1)	0.	4.00(-3)
^{71}Ga	5.63(-1)	0.	4.38(-1)	1.00(0)	0.	0.
^{72}Ga	0.	0.	0.	9.98(-1)	0.	1.50(-3)

CHARGED CURRENT BRANCHING RATIOS
($T_{\nu e} = 6.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{73}Ga	5.49(-1)	0.	4.51(-1)	1.00(0)	0.	0.
^{62}Ge	0.	1.00(0)	0.	0.	9.76(-1)	2.38(-2)
^{63}Ge	0.	1.00(0)	0.	0.	9.97(-1)	2.70(-3)
^{64}Ge	0.	9.94(-1)	5.40(-3)	5.70(-3)	9.79(-1)	1.39(-2)
^{65}Ge	0.	1.00(0)	0.	0.	9.94(-1)	4.00(-3)
^{66}Ge	0.	5.99(-1)	4.01(-1)	1.95(-1)	7.82(-1)	1.91(-2)
^{67}Ge	0.	8.65(-1)	1.35(-1)	1.58(-2)	9.69(-1)	9.80(-3)
^{68}Ge	0.	5.84(-1)	4.16(-1)	9.27(-1)	6.93(-2)	2.30(-3)
^{69}Ge	0.	5.77(-1)	4.23(-1)	3.89(-1)	5.86(-1)	1.68(-2)
^{70}Ge	0.	5.65(-1)	4.34(-1)	9.90(-1)	8.50(-3)	0.
^{71}Ge	0.	5.57(-1)	4.43(-1)	9.43(-1)	5.16(-2)	3.00(-3)
^{72}Ge	4.62(-1)	8.04(-2)	4.58(-1)	9.98(-1)	1.40(-3)	0.
^{73}Ge	0.	4.26(-1)	5.74(-1)	9.83(-1)	1.46(-2)	1.50(-3)
^{74}Ge	5.35(-1)	0.	4.65(-1)	1.00(0)	0.	0.
^{75}Ge	0.	0.	0.	9.98(-1)	1.90(-3)	0.
^{76}Ge	5.26(-1)	0.	4.74(-1)	1.00(0)	0.	0.
^{77}Ge	0.	0.	0.	9.99(-1)	0.	0.
^{78}Ge	9.85(-1)	0.	1.52(-2)	1.00(0)	0.	0.
^{65}As	0.	9.91(-1)	8.60(-3)	5.38(-2)	8.69(-1)	6.57(-2)
^{66}As	0.	5.98(-1)	4.02(-1)	0.	5.74(-1)	3.73(-1)
^{67}As	0.	9.40(-1)	5.96(-2)	7.24(-1)	2.25(-1)	3.29(-2)
^{68}As	0.	5.75(-1)	4.23(-1)	2.37(-2)	5.16(-1)	3.15(-1)
^{69}As	0.	5.68(-1)	4.31(-1)	9.76(-1)	1.92(-2)	1.40(-3)
^{70}As	0.	4.46(-1)	5.46(-1)	4.65(-1)	2.14(-1)	1.92(-1)
^{71}As	0.	3.11(-1)	6.87(-1)	9.96(-1)	3.20(-3)	0.
^{72}As	0.	0.	1.00(0)	9.55(-1)	1.60(-2)	1.38(-2)
^{73}As	5.24(-1)	0.	4.76(-1)	9.99(-1)	0.	0.
^{74}As	0.	0.	0.	9.93(-1)	1.80(-3)	3.90(-3)
^{75}As	5.21(-1)	0.	4.79(-1)	1.00(0)	0.	0.
^{76}As	0.	0.	0.	9.98(-1)	0.	1.20(-3)
^{77}As	5.18(-1)	0.	4.82(-1)	1.00(0)	0.	0.
^{78}As	0.	0.	0.	9.99(-1)	0.	0.
^{67}Se	0.	1.00(0)	0.	0.	9.98(-1)	0.
^{68}Se	0.	1.00(0)	0.	1.96(-2)	9.74(-1)	0.
^{69}Se	0.	1.00(0)	0.	0.	9.95(-1)	0.

CHARGED CURRENT BRANCHING RATIOS
($T_{\nu e} = 6.0 \text{ MeV}$)

Target	$B_{n\beta}^-$	$B_{p\beta}^-$	$B_{\gamma\beta}^-$	$B_{n\beta}^+$	$B_{p\beta}^+$	$B_{\gamma\beta}^+$
^{70}Se	0.	9.88(-1)	1.16(-2)	2.81(-1)	7.10(-1)	1.20(-3)
^{71}Se	0.	9.91(-1)	8.60(-3)	2.25(-2)	9.67(-1)	1.60(-3)
^{72}Se	0.	8.49(-1)	1.51(-1)	8.12(-1)	1.82(-1)	0.
^{73}Se	0.	9.67(-1)	3.28(-2)	2.54(-1)	7.29(-1)	2.60(-3)
^{74}Se	0.	5.30(-1)	4.70(-1)	9.62(-1)	3.53(-2)	0.
^{75}Se	0.	5.94(-1)	4.06(-1)	7.48(-1)	2.45(-1)	2.40(-3)
^{76}Se	0.	2.79(-1)	7.21(-1)	9.91(-1)	8.30(-3)	0.
^{77}Se	0.	2.89(-1)	7.11(-1)	9.46(-1)	5.19(-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.	9.94(-1)	6.30(-3)	0.	9.69(-1)	4.60(-3)
^{69}Br	0.	9.89(-1)	1.07(-2)	1.03(-1)	8.74(-1)	2.80(-3)
^{70}Br	0.	5.69(-1)	4.31(-1)	2.10(-3)	9.05(-1)	8.70(-3)
^{71}Br	0.	9.60(-1)	4.00(-2)	6.68(-1)	3.06(-1)	2.90(-3)
^{72}Br	0.	5.34(-1)	4.66(-1)	6.79(-2)	7.53(-1)	2.72(-2)
^{73}Br	0.	4.62(-1)	5.38(-1)	9.67(-1)	2.77(-2)	0.
^{74}Br	0.	1.53(-1)	8.47(-1)	6.23(-1)	2.43(-1)	2.34(-2)
^{75}Br	0.	9.90(-3)	9.90(-1)	9.94(-1)	4.80(-3)	0.
^{76}Br	0.	0.	0.	9.41(-1)	3.54(-2)	6.50(-3)
^{77}Br	0.	0.	0.	9.98(-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.	9.97(-1)	1.50(-3)	0.
^{69}Kr	0.	1.00(0)	0.	0.	1.00(0)	0.
^{70}Kr	0.	1.00(0)	0.	0.	9.94(-1)	0.
^{71}Kr	0.	1.00(0)	0.	0.	9.97(-1)	0.
^{72}Kr	0.	1.00(0)	0.	4.63(-2)	9.48(-1)	0.
^{73}Kr	0.	1.00(0)	0.	2.90(-3)	9.93(-1)	0.
^{74}Kr	0.	9.97(-1)	2.90(-3)	3.27(-1)	6.65(-1)	1.00(-3)
^{75}Kr	0.	9.96(-1)	4.20(-3)	4.13(-2)	9.51(-1)	0.
^{76}Kr	0.	9.17(-1)	8.35(-2)	7.28(-1)	2.68(-1)	0.
^{77}Kr	0.	9.81(-1)	1.91(-2)	3.03(-1)	6.90(-1)	1.40(-3)
^{78}Kr	0.	8.84(-1)	1.16(-1)	9.29(-1)	6.89(-2)	0.
^{79}Kr	0.	9.27(-1)	7.32(-2)	6.52(-1)	3.41(-1)	1.60(-3)
^{80}Kr	0.	2.48(-1)	7.52(-1)	9.81(-1)	1.84(-2)	0.