

Table 1: Ordinary and Cubic Zeeman Effects

B-Field [T]	$m_s = \downarrow m_I = \downarrow$	$m_s = \uparrow m_I = \downarrow$	$m_s = \downarrow m_I = \uparrow$	$m_s = \uparrow m_I = \uparrow$
1.45	-0.5000030808532355	-0.4999969119989301	-0.5000030880010699	-0.4999969191467644
	-0.5000030808532355	-0.4999969119989301	-0.5000030880010699	-0.4999969191467644
5.70	-0.5000121109403054	-0.4999878609613113	-0.5000121390386887	-0.4999878890596947
	-0.5000121109403054	-0.4999878609613113	-0.5000121390386887	-0.4999878890596947
11.7	-0.5000248592985215	-0.4999750830258496	-0.5000249169741504	-0.4999751407014785
	-0.5000248592985215	-0.4999750830258496	-0.5000249169741504	-0.4999751407014785
45.5	-0.5000966750498057	-0.4999031006560818	-0.5000968993439182	-0.4999033249501942
	-0.5000966750498057	-0.4999031006560818	-0.5000968993439182	-0.4999033249501942

Table 2: Ratio of Higher Order to Ordinary Zeeman Effect

B-Field [T]	$m_s = \downarrow m_I = \downarrow$	$m_s = \uparrow m_I = \downarrow$	$m_s = \downarrow m_I = \uparrow$	$m_s = \uparrow m_I = \uparrow$
1.45	$7.733265943763771 \times 10^{-12}$	$-7.733265943763771 \times 10^{-12}$	$-7.733265943763771 \times 10^{-12}$	$7.733265943763771 \times 10^{-12}$
5.70	$1.195024069026801 \times 10^{-12}$	$-1.195024069026801 \times 10^{-12}$	$-1.195024069026801 \times 10^{-12}$	$1.195024069026801 \times 10^{-12}$
11.7	$5.034990606619846 \times 10^{-12}$	$-5.034990606619846 \times 10^{-12}$	$-5.034990606619846 \times 10^{-12}$	$5.034990606619846 \times 10^{-12}$
45.5	$7.614646287789273 \times 10^{-11}$	$-7.614646287789273 \times 10^{-11}$	$-7.614646287789273 \times 10^{-11}$	$7.614646287789273 \times 10^{-11}$