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]	Aligned	Anti-aligned
1.45	$-9.898580 \times 10^{-12}$	9.898580×10^{-12}
5.70	$-1.529630 \times 10^{-10}$	1.529630×10^{-10}
11.7	$-6.444787 \times 10^{-10}$	6.444787×10^{-10}
45.5	-9.746747×10^{-9}	9.746747×10^{-9}