

Minimum points Chiral Hamiltonian						
Quantization axis	$\theta_{\min}$	$\varphi_{\min}$	$H_{\min}^{\text{chiral}}(\theta, \varphi)$	$I_1$	$I_2$	$I_3$
1-axis	2.75346	-2.27132	1.20252	-16.1983	-4.2693	-5.06331
1-axis	2.89372	3.14159	1.47819	-16.9652	-4.29342	$5.25792 \times 10^{-16}$
2-axis	1.93526	-1.90543	1.3813	-15.4435	-6.23792	-5.36993
2-axis	2.14827	3.14159	2.87304	$1.79561 \times 10^{-15}$	-9.55341	-14.6623
3-axis	2.01807	-2.8588	1.36095	-15.1518	-4.40281	-7.56889
3-axis	2.02133	3.14159	1.71935	-15.7538	$1.92928 \times 10^{-15}$	-7.62032