Newly Defined Helicity



Periodic Potential Field

- Under periodic side boundary condition, B field can be separated into two parts, B = B₀ + B_c.
 - $(\mathbf{B}-\mathbf{B}_0)\cdot\hat{\mathbf{n}}|_{\mathrm{side\ boundary}}\neq 0$, \mathbf{B}_0 can **NOT** be chosen as \mathbf{B}_R .
 - **B**₀ has a lower energy than **B**_p.
 - As $\mathbf{B}_p = \mathbf{B}_0 + \mathbf{B}_{p1}$, the cross term in the energy calculation vanished by the boundary condition.