Initial Conditions

- Prepare 128^3 magnetic field initial conditions dataset in k-space (Fourier space) with following properties
  - Solenoidal
    $$\nabla \cdot B(k) = 0$$
  - Mean field in z direction
    $$B = B_0 \hat{z}$$
  - omnidirectional spectrum begins at largest wavelength with positive slope until it reaches wavenumber k_0 such that it follows Kolmogorov type power law that holds until Nyquist wavenumber
  - Energy in fluctuations = 1
    $$b_x^2 + b_y^2 = 1$$