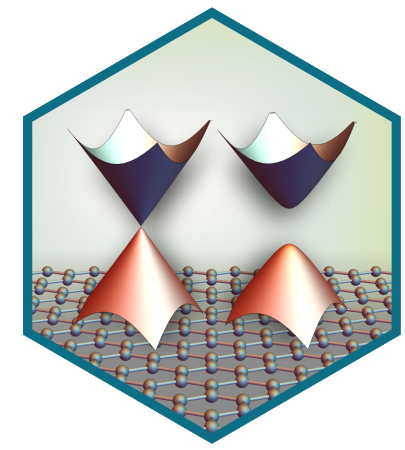


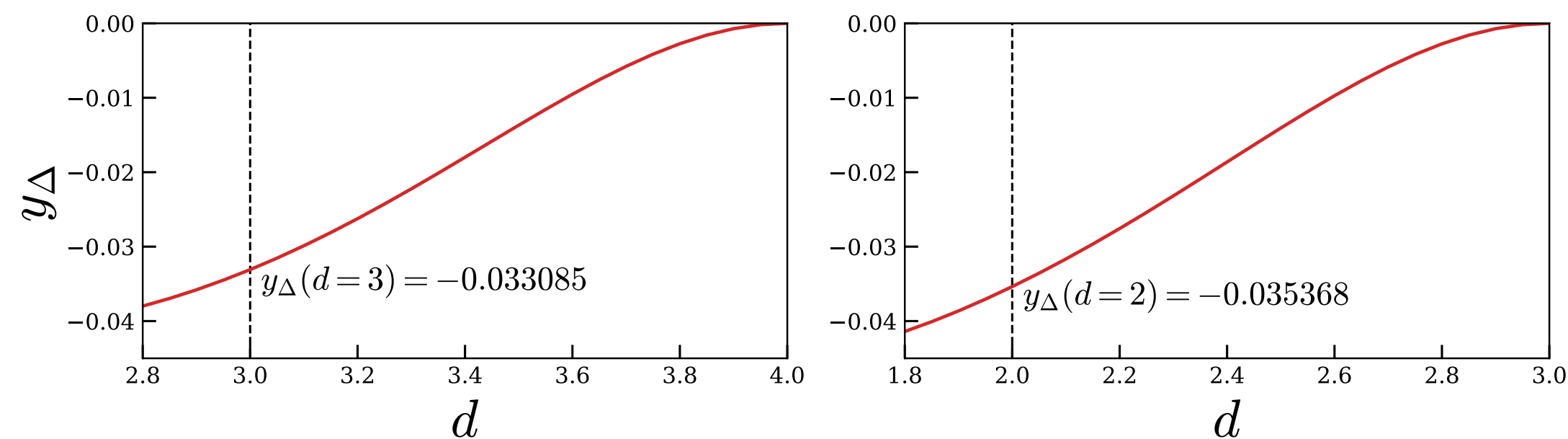
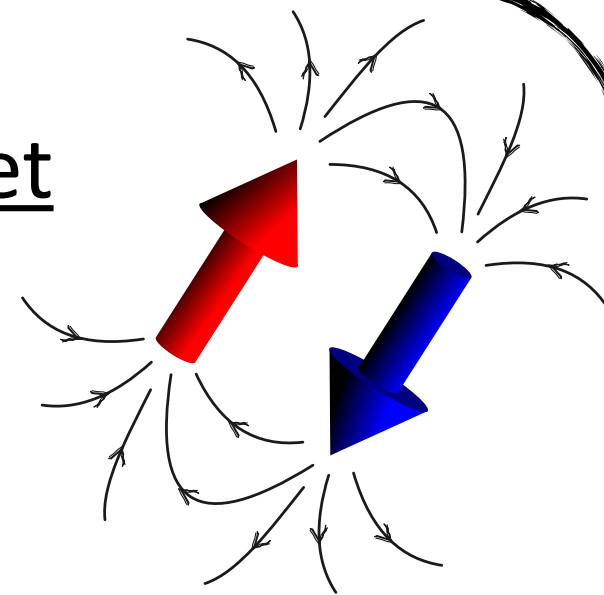
Critical behavior of isotropic magnets with screened dipolar interactions



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$$\mathcal{L} = \frac{1}{2}(\partial_i \phi_j)^2 + \boxed{\frac{\Delta}{2}(\partial_i \phi_i)^2} + \frac{1}{2}m^2 \phi_i^2 + \frac{\lambda}{4}(\phi_i^2)^2$$

Simplest example: Dipolar antiferromagnet



Outlook: Electronic nematicity in Dirac fermion systems

