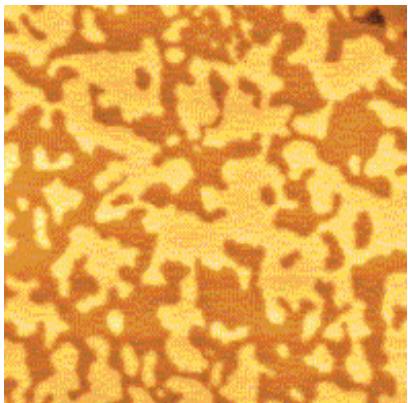


From magnets to melt ponds

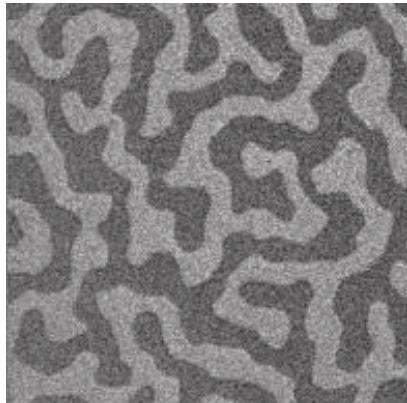
100 year old model for magnetic materials used to explain melt pond fractal geometry



magnetic domains
cobalt



Arctic melt ponds

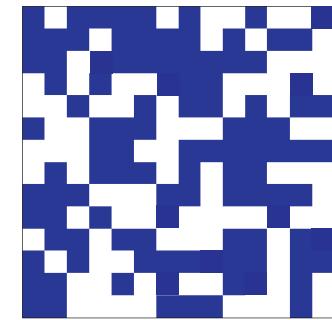
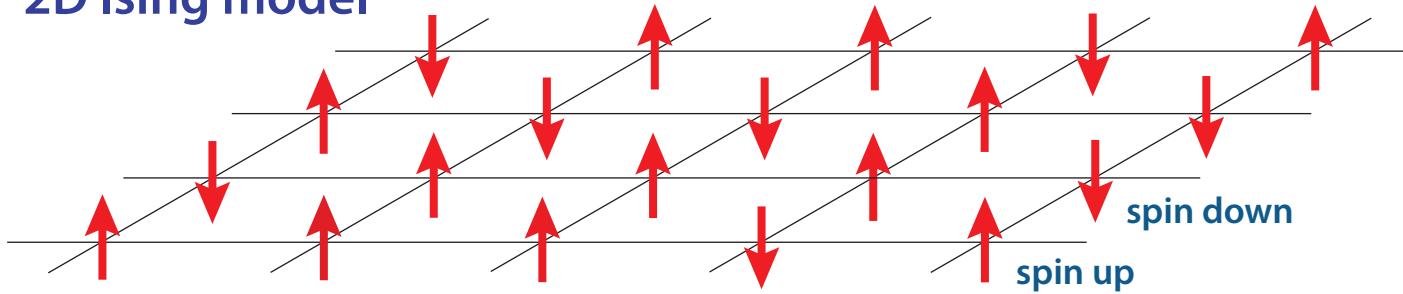


magnetic domains
cobalt-iron-boron



Arctic melt ponds

2D Ising model



Ma, Sudakov, Strong, Golden, *New J. Phys.* 2019
Golden, Ma, Strong, Sudakov, *SIAM News* 2020