**2D system**

1. System Size:

* The 4 properties.
* Graphs
* Runtime as a function of system size
* Graphs

1. Nearest-Neighbors Interaction:

* nn(0), nn(1), nn(2), nn(3): Think about overcounting factor.
* Illustrating Graph
* The interaction strength: (Exponentially, Polynomial, etc.…)
* The 4 properties.
* Graphs in comparison.

1. General Spin Direction:

* The 4 properties.
* Illustrating Graph (Gradient colors)

1. Random System:

* The 4 properties.
* Graphs.

**3D system**

Build up on your previous results on 2D system. That would give us the best combination of modification to simulate the real behavior.

**Ask your own question**

Study a well-known material, that its properties are known. And compare our results with the literature.

Saturated magnetization\*.