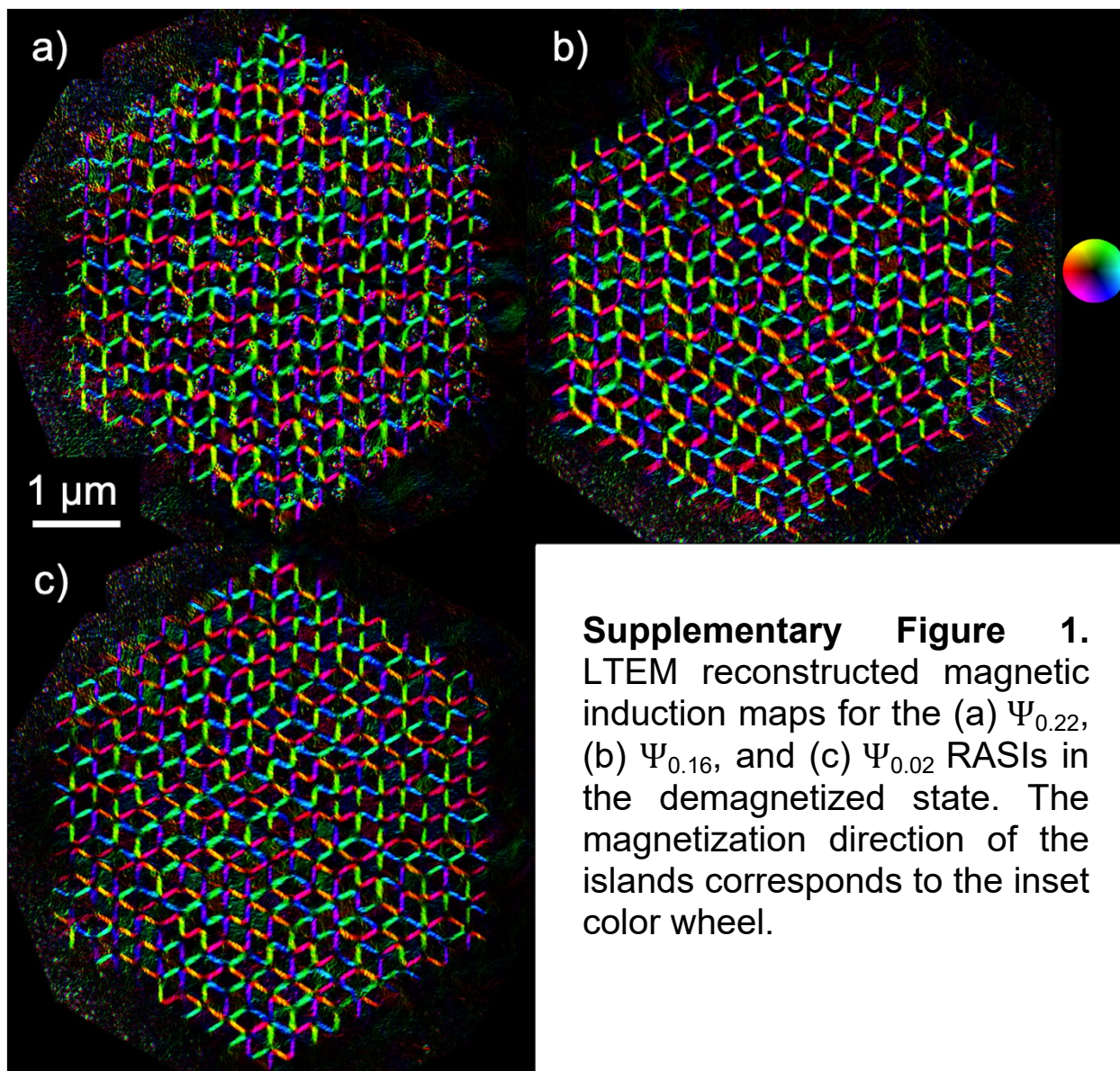


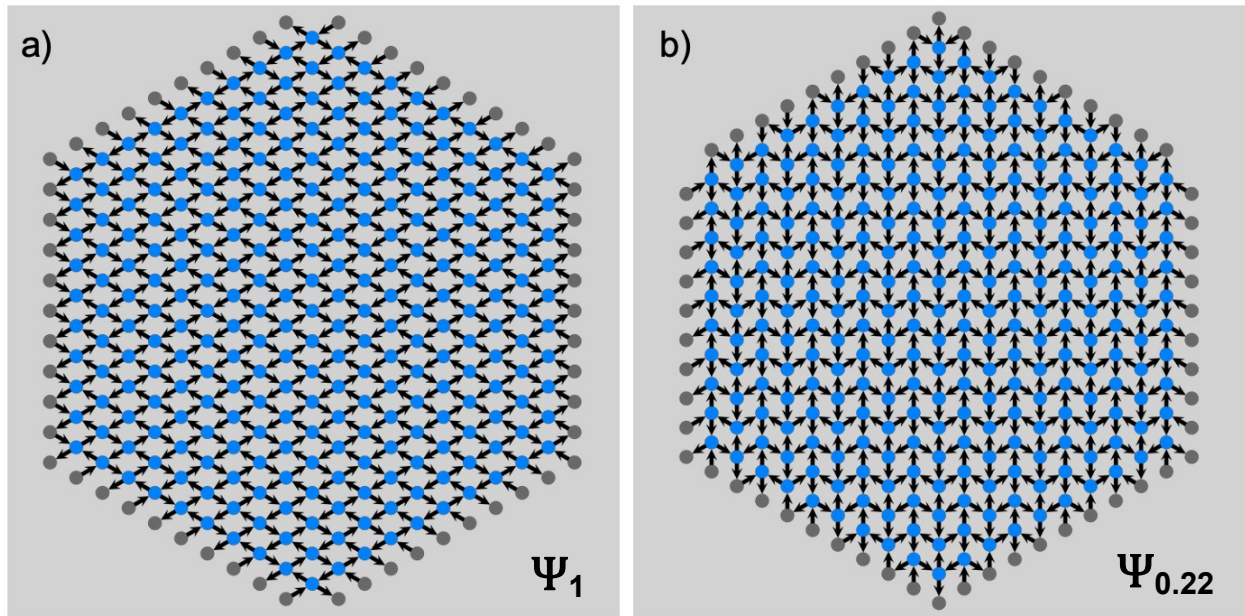
## Supplementary Figures

### Direct Observation of Magnetic Ordering induced via Systematic Lattice Disorder in Artificial Rhombus Spin Ices

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**Supplementary Figure 2.** The ground state directed motif energy graphs for (a)  $\Psi_1$  and (b)  $\Psi_{0.22}$ . The magnetic ordering is the same as that of a square ASI, with no degenerate spins nor motif excitations.