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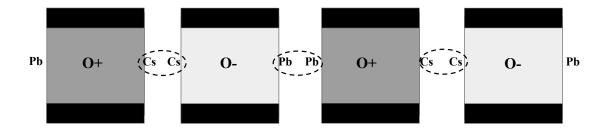


Figure S1: Ground state of the 1D arrangement

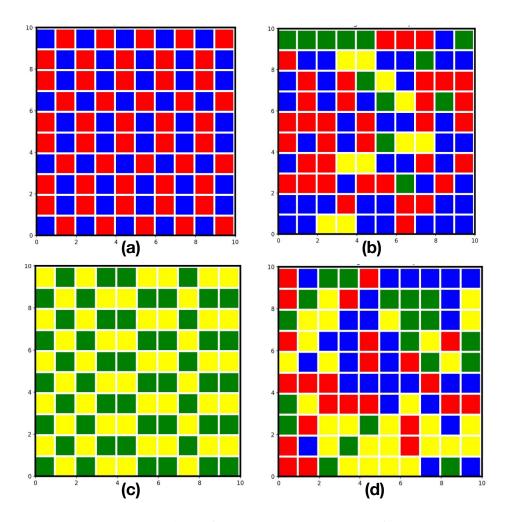


Figure S2: Snapshot of 2D N \times N arrangement for N=10