A FLOATING CODE WITH COSET CODING

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Floating codes aim to store rewritable data in a write asymmetric memory, which is the model of recent flash memories with an irreversible property: each cell can only transit from the lower level (value) to the higher, unless entire block of cells is reset to zero level. We propose a floating code construction using so-called coset coding technique proposed by Cohen, Godlewski and Merkx. We also analyze the performance of the proposed code.