

# A FLOATING CODE WITH COSET CODING

NAOYOSHI OKAMAE, TORU FUJIWARA, YUICHI KAJI

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 Merkk. We also analyze the performance of the proposed code.