

**CONFINEMENT OF THE TWO DIMENSIONAL
DISCRETE GAUSSIAN FREE FIELD BETWEEN TWO
HARD WALLS**

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We consider the two dimensional discrete Gaussian free field confined between two hard walls. We show that the field becomes massive and identify the precise asymptotic behavior of the mass and the variance of the field as the height of the wall goes to infinity. By large fluctuation of the field, asymptotic behaviors of these quantities in the two dimensional case differ greatly from those of the higher dimensional case.