

TOPICS FOR A BACHELOR THESIS, SPRING 2018

PAUL ANDRIES ZEGELING, ROOM 513

THE SQUARE ROOT OF A MATRIX: $A^{1/2}$

FRACTAL DERIVATIVES

THE HILBERT TRANSFORM: \mathcal{H}

NON-STANDARD FINITE DIFFERENCES

THE MITTAG-LEFFLER FUNCTION: $E_{\alpha,\beta}(z)$

THE h -CURVE IN THE HOMOTOPY ANALYSIS METHOD

THE FUNCTIONAL EQUATION: $f(x+1) = x f(x)$