multifractals - Fractals with Varying degrees of voughness For each value of roughness, compute the dimension of the part of the factor having Mat roughness. d measures roughness; for each value et a, F(x) 15 the dimension of the set part of the tractal with that &. Using IFS with different probabilities, If 12 = 12 = 13 = 14 for {T1, T2, T3, T4}, $\min(\alpha) = \frac{\log(\max p_i)}{\log(r_i)}$ Max (d) = log (MIAPi) lag (r;)

 $f(\alpha) = dim f$ $f(\alpha)$