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*Distributions of root numbers and Fourier coefficients of modular forms*

While asymptotically root numbers of modular forms are  $+1$  half the time and  $-1$  half the time, there is in fact a bias towards sign  $+1$ . Moreover, an unexpected correlation between root numbers and Fourier coefficients of modular forms, termed murmurations, was recently discovered. I will discuss these phenomena, along with analogues for local root numbers.