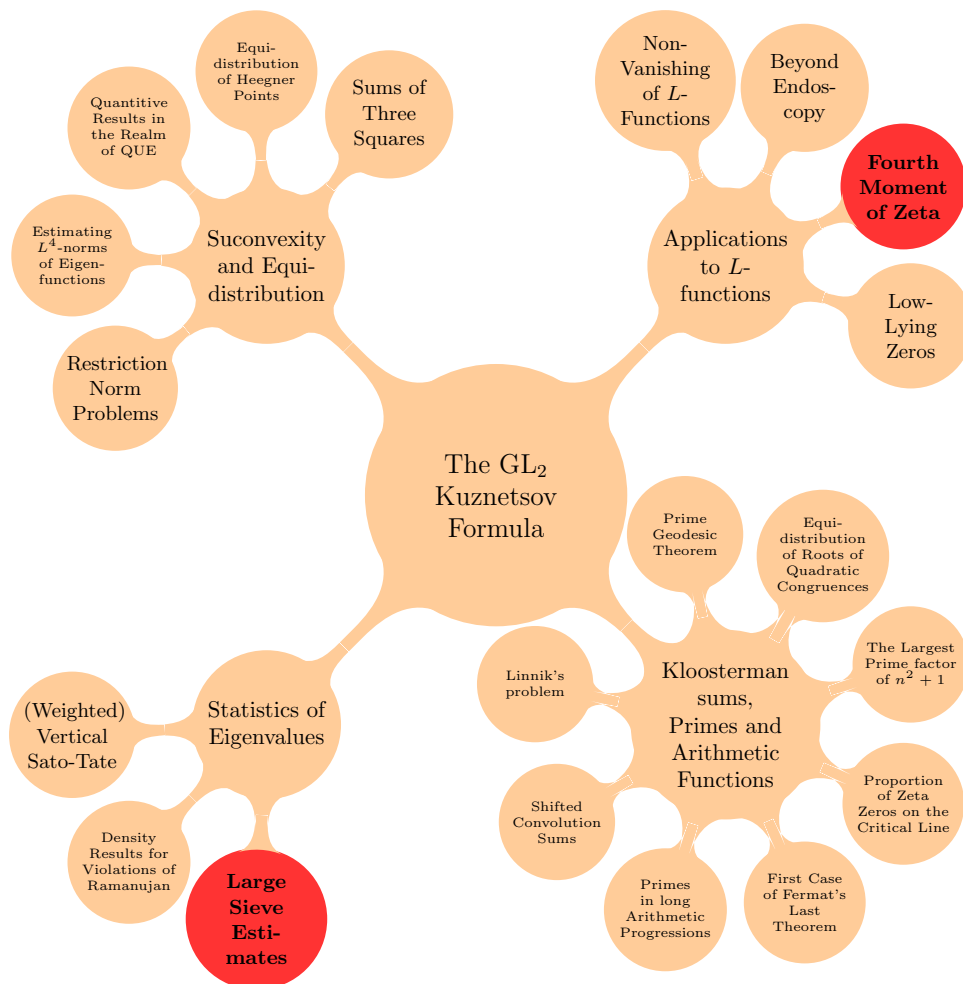Prof. Dr. Valentin Blomer
Dr. Edgar Assing

Relative Trace Formulae in Analytic Number Theory

Explanation: Since we assume the audience to be very diverse we have prepared two distinct (and quite different) exercise sets:

a) The first set is all about computing a relative trace formula in a specific setting as explicit as possible. To make things a bit more interesting we have chosen the setting of Jacobi Forms for this part.

b) The second set is about classical applications of the Kutznetsov formula. It is all about using the Kutznetsov formula as a black box (in both directions) to derive several analytic applications of varying difficulty.

Have Fun!