

Meeting: 1089, Boulder, Colorado, ROUQUIER, Invited Address

1089-22-4 **Raphael Rouquier*** (rouquier@math.ucla.edu). *Higher Representation Theory*.

Classical representation theory studies symmetries of sets and vector spaces, whereas higher representation theory studies symmetries of categories and higher structures. There is a class of such higher symmetries encoded by simple Lie algebras, which can be viewed as the next step after quantization. We will discuss algebraic, geometrical and topological aspects and applications. (Received February 20, 2013)