

QUANTUM CLUSTER VARIETIES, QUIVER SEIZURES, AND GDAHA

DAVIDE DAL MARTELLO

Generalized double affine Hecke algebras (GDAHA) are flat deformations of the group algebras of special planar crystallographic groups. Borrowing the higher Teichmüller toolkit, I will construct the first explicit representation of the GDAHA of type E6 by outlining a machinery that links geometry with quantum algebra. Moreover, I will show that the (graph-theoretical) quiver seizure operation connects this new representation with another deep construction we introduced as the GDAHA functor.