2019-08-08

1151-20-79   **Eilidh McKemmie***, eilidh.mckemmie@gmail.com. *Invariable generation of fixed rank groups of Lie type.* Preliminary report.

We say a group is invariably generated by a subset if it forms a generating set even if an adversary is allowed to replace any elements with their conjugates. We investigate for which finite groups of Lie Type two random elements invariably generate the group with positive probability as the order of the field goes to infinity. We discuss methods from algebraic and finite group theory that can help us understand this problem using what we know about the Weyl groups. (Received August 08, 2019)