MEMORIAL
UNIVERSITY

MATHEMATICS AND STATISTICS
Faculty of Science

Algebra Seminar

Rost Multipliers of
Kronecker tensor products

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Abstract:

We extend the techniques employed by Garibaldi to construct a map $\mathrm{Sp}_{2n} \times \mathrm{Sp}_{2m} \to \mathrm{Spin}_{4nm}$ for all values of n and m. We then show how, depending on the parities of n and m, this map induces injections between central quotients, for example $\mathrm{PSp}_{2n} \times \mathrm{PSp}_{2m} \hookrightarrow \mathrm{HSpin}_{4nm}$ when n and m are not both odd. Additionally, we calculate the Rost multipliers for each map we have constructed.