## "Group Theory International" Online Seminar

Andrey Nikolaev (Stevens Institute of Technology) "Knapsack Problems in Products of Groups" Thursday, November 13, noon (New York Time)

## Abstract:

The classic knapsack and related problems have natural generalizations to arbitrary (noncommutative) groups, collectively called knapsack-type problems in groups. We study the effect of free and direct products on their time complexity. We show that free products in certain sense preserve time complexity of knapsack-type problems, while direct products may amplify it.

This is joint work with Elizaveta Frenkel and Alexander Ushakov.

Next presentation: Nov 20, Artem Shevlyakov (Omsk State University, Russia)

