"Group Theory International" Online Seminar

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"Linear groups with Borel's property"

Thursday, November 6, noon (New York Time)

Abstract:
When does Borel's theorem on free subgroups of semisimple Lie groups generalize to other groups? In this talk, we present a systematic study of this question and arrive at positive and negative answers for it. In particular, we find a full classification of fundamental groups of surfaces and von Dyck groups that satisfy Borel's theorem. We also discuss connections with a question of Breuillard, Green, Guralnick, and Tao concerning double word maps.

Next presentation: Nov 13, Andrey Nikolaev *(Stevens Institute of Technology)*

Algebraic Cryptography Center