"Group Theory International" Online Seminar

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"Compactness properties of systems of equations"

Thursday, November 20, noon (New York Time)

Abstract:

We consider systems of equations over groups and semigroups. For any infinite system of equations S one can set the following problems.

- (a) Is there a finite subsystem S_0 of S, which is equivalent to S?
- (b) Solve (a) if S is consistent.
- (c) Suppose an equation t = s is satisfied by all solutions of S. Is there a a finite subsystem S_0 of S such that t = s is deduced from S_0 ?

Thus, we are going to talk about the Noetherian property and other close properties. We explain examples (groups or semigroups), where the problems (a)-(c) are solved positively (or negatively).

Next presentation: Dec 4, Alejandra Garrido Angulo (University of Oxford, UK)

