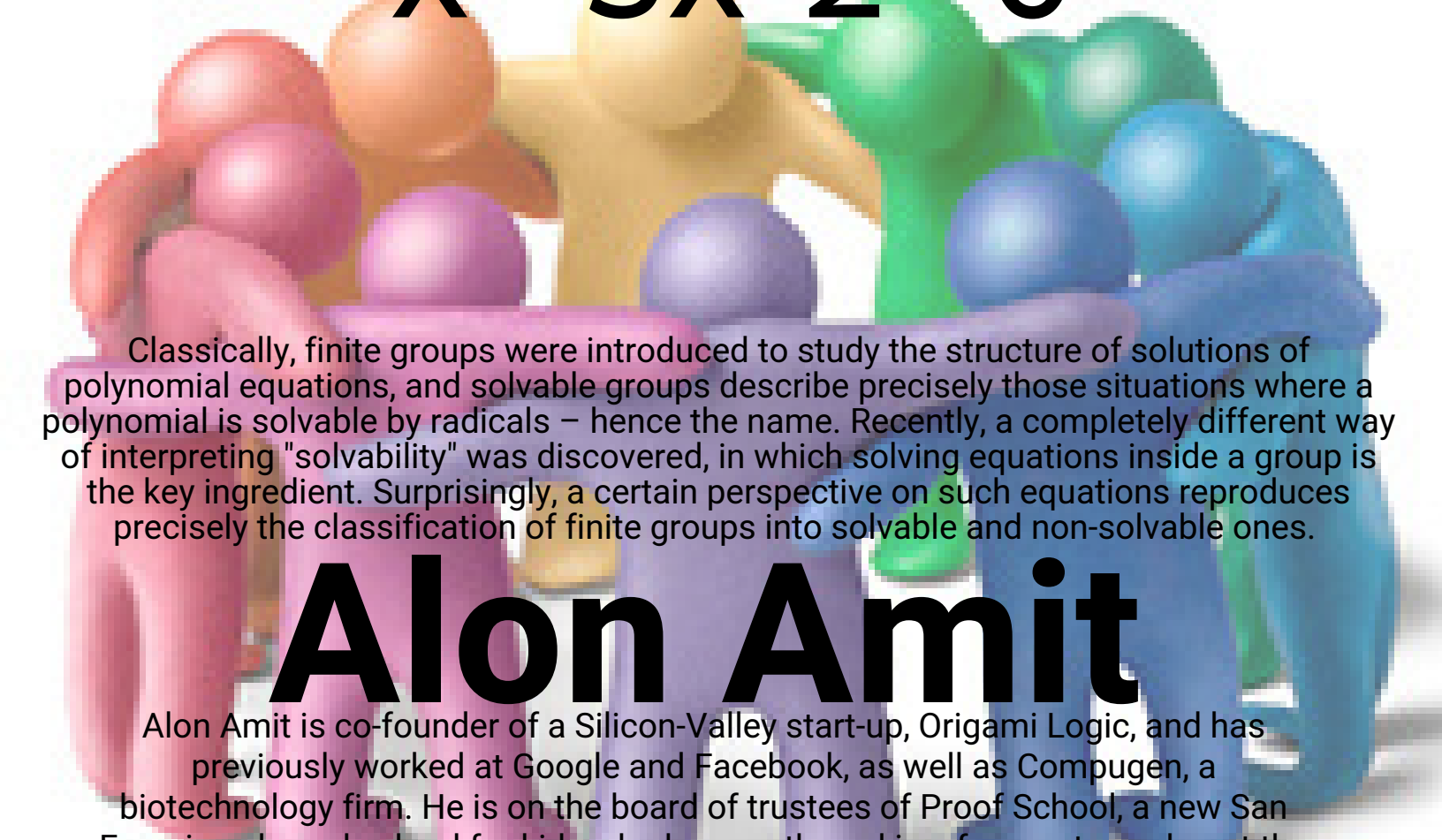
DEPARTMENT OF MATHEMATICS

Fall 2018 Colloquium Series

Equations over Finite Groups and a New Perspective on "Solvability"

$$x^5-5x-2=0$$



Classically, finite groups were introduced to study the structure of solutions of polynomial equations, and solvable groups describe precisely those situations where a polynomial is solvable by radicals – hence the name. Recently, a completely different way of interpreting "solvability" was discovered, in which solving equations inside a group is the key ingredient. Surprisingly, a certain perspective on such equations reproduces precisely the classification of finite groups into solvable and non-solvable ones.

Alon Amit

Alon Amit is co-founder of a Silicon-Valley start-up, Origami Logic, and has previously worked at Google and Facebook, as well as Compugen, a biotechnology firm. He is on the board of trustees of Proof School, a new San Francisco-based school for kids who love math, and is a frequent speaker at the Math Circles at Stanford, Berkeley, SJSU and many others around the SF Bay Area. Alon holds a Ph.D. in mathematics from the Hebrew University of Jerusalem, Israel, and a B.Sc. in Computer Science and Physics from the same institute.

Thursday, October 25, 2018

BSS Room 204, 4:00 PM

To view this poster online, go to http://www.humboldt.edu/math/news-and-events/math-colloquium

We cordially invite you to the Pre-Colloquium Tea on the third floor of the BSS building at 3:30 pm on Thursday.