The Sylow subgroups of the absolute Galois group of Q.

Abstract:
Following a question of Serre, the Sylow subgroups of the absolute Galois group of a p-adic field were studied and completely understood by Labute. However, the structure of the p-Sylow subgroups of the absolute Galois group of the field of rational numbers is much more subtle and mysterious. We make progress towards its determination via a surprisingly simple decomposition. Joint work with Lior Bary-Soroker and Moshe Jarden.

Host: Cristian Popescu

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