

آگهی سخنرانی

Isomorphism problem for Cayley graphs

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Absrtact:

In 1967 A. Ádám posed a problem in JCT about isomorphisms of circulant graphs. It was solved 40 years later by M. Muzychuk. In 1977 L. Babai generalized the problem to Cayley graphs of arbitrary finite groups, and at the same time he considered not only graphs but relational structures of arbitrary type. This problem has attracted a lot of attention in the past 50 years. In this talk I will be able to highlight only a few results and point out the most important open questions: the case of Cayley graphs of elementary Abelian groups (recent results by M. Muzychuk; P. Spiga; G. Somlai) and direct products of groups of coprime orders.

زمان: یکشنبه ۱۳۹۵/۱۱/۱۷، ساعت: ۱۴:۰۰ الی ۱۵:۰۰

مکان: میدان نیاوران، پژوهشگاه دانشهای بنیادی، پژوهشکده ریاضیات، سالن ۱