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Locally 2-Arc Transitive Graphs

Abstract for the Combinatorics and Algebra Seminars 2011 February 15

Let Γ be a finite, simple, connected graph. For a subgroup G of the automorphism group of Γ , we say that Γ is locally (G,s) -arc transitive if for any two s -arcs α and β starting at the same vertex, there exists an element of G mapping α to β . These graphs arise in many areas of mathematics, including certain finite geometries, and are very interesting in their own right. I will discuss basic definitions and results, in particular the case when $s = 2$, and mention some recent work on locally $(G,2)$ -arc transitive graphs when G is an almost simple group of Suzuki type.

No previous knowledge of algebraic graph theory or group theory will be assumed.

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Last update: **2020/01/29 19:03**

