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### Quasigroups via Graphs

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#### Abstract for the Combinatorics and Algebra Seminars 2008 September 16

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A quasigroup is essentially a group without associativity. An  $n$ -ary quasigroup is a generalization from 2 to  $n$  independent variables. I will explain how indecomposability of biased graphs explains decomposition of  $n$ -ary quasigroups, and vice versa. There are many open questions.

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