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*Invariants of  $\mathbb{Z}$ -linear quasigroups.* Preliminary report.

A quasigroup  $(Q, \cdot)$  is a set equipped with a (non)associative binary multiplication that satisfies the Latin square property. A quasigroup  $(A, \cdot)$  is said to be  $\mathbb{Z}$ -linear if  $(A, +, 0)$  forms an abelian group and  $x \cdot y = \rho(x) + \lambda(y)$ , where  $\rho, \lambda$  are automorphisms of the underlying abelian group. This talk will discuss isomorphism invariants for permutation representations of a class of  $\mathbb{Z}$ -linear quasigroups. (Received September 17, 2019)