Seminario Matematico di Brescia

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Fundamentals on the Hadamard quasigroup product

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Abstract:
    The Hadamard quasigroup product is a natural generalization of the classical Hadamard product of matrices, whose successive iteration is endowed with a cyclic behaviour. Of particular interest is the set of Latin squares for which this iteration preserves the Latin square property. This condition requires the existence of successive localized Latin transversals within the Latin square under consideration. In this talk, we characterize this type of Latin squares and delve into the fundamentals of their Hadamard quasigroup product.

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