An Axiomatic Approach to Intercalation

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Rows, Columns and colors of intercalate matrices play symetric roles in such a way that a theory of Trialyty appears. This nice feature of intercalate matrices Intercalate Matrices is shared by other structures such as graph embedings and some kind of groups. Indeed those can be considered as special cases of the triality of Intercalate matrices. In this talk a set of axioms that incorporates the symetry of the rows, columns and colors is presented. Structures that satisfy this axiomatization are called Intercalation Structures. Several examples of these will be shown.