

Applications of the theory of representation of posets and algebras in cryptography

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Abstract

In this short course, we discuss how some techniques arising from the theory of representation of posets can be used in order to construct some visual cryptography schemes (VCS), systems of visual passwords (passdoodles) and CAPTCHAs. We also use the structure of the preprojective and preinjective components of some wild quivers in order to strengthen some classical cryptographic systems.