

1135-81-2821

Heide Gluesing-Luerssen and **Tefjol Pllaha*** (tefjol.pllaha@uky.edu). *Stabilizer Codes over Local Frobenius Rings.*

Let R be a finite, commutative, local, Frobenius ring. A stabilizer code is a submodule of R^{2n} which is self-orthogonal with respect to a certain symplectic bilinear form. Stabilizer codes have applications in quantum error-correction and we discuss the motivation. In particular, we focus on the minimum distance and isometries of free stabilizer codes. (Received September 26, 2017)