

1038-94-89

**Steven T. Dougherty** ([doughertys1@scranton.edu](mailto:doughertys1@scranton.edu)), Department of Mathematics, University of Scranton, Scranton, PA 18510, **Jon-Lark Kim\*** ([jl.kim@louisville.edu](mailto:jl.kim@louisville.edu)), Department of Mathematics, University of Louisville, Louisville, KY 40292, and **Hongwei Liu** ([h\\_w\\_liu@yahoo.com.cn](mailto:h_w_liu@yahoo.com.cn)), Department of Mathematics, Central China Normal University, Wuhan, Hubei 430079, Peoples Rep of China. *Self-dual codes over finite chain rings.*

In this talk, we study self-dual codes over finite chain rings, as a natural extension of self-dual codes over Galois rings. We describe the existence of self-dual codes over chain rings. We explain a building-up construction for self-dual codes over chain rings. We also define Type II codes, shadows, and torsion codes. (Received January 30, 2008)