1106-05-2128   **Padmapani Seneviratne*** (padmapani.seneviratne@tamuc.edu), Department of Mathematics, Texas A&M University, P.O. Box 3011, Commerce, TX 75429-3011. $(0,2)$-*graphs and their codes.* Preliminary report.

Binary codes obtained from the neighborhood designs of $(0,2)$-graphs Γ, the cartesian product $2\Gamma = \Gamma \times K_2$ and their reflexive graphs $\widetilde{\Gamma}$ and $\widetilde{2\Gamma}$ are introduced. We show that the binary codes from the neighborhood designs of 2Γ and $\widetilde{2\Gamma}$ are self-dual. Further, bounds on the minimum distance and partial weight distributions of these codes are obtained. In particular, we show that many optimal binary self-dual codes can be obtained by this construction method. (Received September 15, 2014)