

1067-51-1841

Thomas Anthony Petrillo* (thomas.petrillo@utoledo.edu), The University of Toledo,
Department of Mathematics MS 942, 2801 W. Bancroft Street, Toledo, OH 43606. *Prime Paths in
Graph Coverings and a Chebotarev Density-type Result.*

Let Y and X be finite graphs, with Y a covering graph of X . I establish a relationship between prime paths in Y and those in X . The proof will use combinatorial and analytic techniques. Additionally, a Chebotarev Density-type Theorem will be deduced. (Received September 22, 2010)