

1079-05-327

Marius M Somodi* (marius.somodi@uni.edu), Department of Mathematics, University of Northern Iowa, Cedar Falls, IA 50614. *Arithmetical Equivalence of Graph Coverings*.

We begin by introducing the concept of arithmetical equivalence of graph coverings, inspired from a similar concept from number theory. Then we discuss different characterization of arithmetical equivalence of graph coverings and investigate the connection with the Ihara zeta function. (Received January 17, 2012)