

Dong Han KIM

Title: Continued fraction algorithm for rational numbers of certain parity types

Abstract:

There are three different kinds of rational numbers according to the parity of the numerator and denominator, say odd/odd, even/odd and odd/even rational numbers. For a given irrational number, we consider the properties of best rational approximations of given parities. We study continued fraction algorithms to find best rational approximations by rational numbers of given parities and compare the algorithms with continued fraction expansions.

This is joint work with Seul Bee Lee and Lingmin Liao.