Computational Construction of W-graphs of Hecke algebras $H(q,n)$ for n up to 15

Mitsuyuki Ochiai
Fujio Kako

Abstract

We construct by computer all W-graphs corresponding to irreducible representations of Hecke algebras $H(q,n)$ for n up to 15, using a modification of a method proposed by Lascoux and Schützenberger (which fails for $n > 13$).