



ICECA

International Conference
Enumerative Combinatorics and Applications
University of Haifa – Virtual – August 17-19, 2026

BRANCHING RULES FOR WINDING SUBALGEBRAS OF AFFINE KAC–MOODY ALGEBRAS

DUC-KHANH NGUYEN

Vietnam Institute for Advanced Study in Mathematics, Lang, Ha Noi

In this paper, using Lakshmibai–Seshadri paths, we give a branching rule for representations of affine Kac–Moody algebras restricted to winding subalgebras. As a corollary, we can describe branching multiplicities in the language of paths. An analogue of Steinberg’s formula for branching multiplicities is also given.