

# YOUNG DIAGRAMS AND INTERSECTION NUMBERS ON TORIC MANIFOLDS ASSOCIATED WITH WEYL CHAMBERS

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## ABSTRACT

We give simple closed formulas for intersection numbers on the toric manifolds associated with Weyl chambers for the root systems of classical type with the aid of Weyl invariance of those numbers, and the formulas are written in terms of Young diagrams which encode the multiplicities of given invariant divisors. As a corollary, we obtain a combinatorial formula for the intersection numbers of certain submanifolds indexed by the elements of Weyl groups which describe the ring structures of the cohomology of these toric manifolds.

