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Omega polynomial in twisted (4,4) tori

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Abstract
Define quasi orthogonal cuts qoc with respect to a given edge in a graph G=G(V,E) as the smallest subset of edges closed under taking opposite edges on faces. Omega polynomial Ω(G,x)is defined on the qoc strips of all extent in G. Analytical close formulas for calculating Ω(G,x) in twisted (4,4)S and (4,4)R tori are derived.

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