

Year: 2008

Vol.: 72

Fasc.: 3-4

Title: On spectra of abelian group rings

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In this paper we study the spectrum of integral group rings of finitely generated abelian groups G from the scheme-theoretic viewpoint. We prove that the (closed) singular points of $\text{Spec } Z[G]$, the (closed) intersection points of the irreducible components of $\text{Spec } Z[G]$ and the (closed) points over the prime divisors of $|t(G)|$ coincide. We also determine the formal completion of $\text{Spec } Z[G]$ at a singular point.

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