



“Symmetric sets of plane valuations and the topological type”

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Let $\{C_i : i = 1, \dots, r\}$ be a set of irreducible plane curve singularities. For an action of a finite group G , let $\Delta_L(\{t_i\})$ be the Alexander polynomial in $r|G|$ variables of the algebraic link $(\bigcup_{i=1}^r \sum_{\alpha \in G} \alpha C_i) \cap \{z = \varepsilon\}$ and let $\zeta(t_1, \dots, t_r) = \Delta_L(t_1, \dots, t_1, t_2, \dots, t_2, \dots, t_r, \dots, t_r)$ with $|G|$ identical variables in each group. (If $r = 1$, $\zeta(t)$ is the monodromy zeta function of the function germ $\sum_{\alpha \in G} \alpha * f$, where $f = 0$ is an equation defining the curve C_1 .) We prove that $\zeta(t_1, \dots, t_r)$ determines the topological type of the link L . We prove an analogous statement for plane divisorial valuations formulated in terms of the Poincaré series of a set of valuations. The talk is based on a joint work with A. Campillo and F. Delgado.

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