

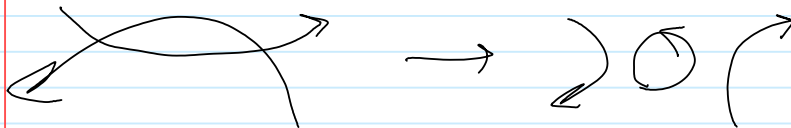
The Chmutov-Duzhin formulas for the J^{\pm} invariants

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CD: $J^+ - J^- = n = \# \text{double points}$, and

$$J^-(\Gamma) = 1 - \sum_{\tilde{C}} \text{ind}_{\Gamma}^2(\tilde{C}) \chi(\tilde{C}),$$

where \tilde{C} runs over regions in the oriented smoothing $\tilde{\Gamma}$ of Γ and χ denotes Euler characteristic.



Why does it have the right jumps?

Why is it a.F.T?

