Marco Golla

Title: Odd and even topological line arrangements

Abstract: Hirzebruch proved a beautiful inequality for complex line arrangements in $\mathbb{CP}^2$, giving strong bounds on their combinatorics. In the quest for a topological proof of this inequality, Paolo Aceto and I studied odd and even line arrangements (which I will define in the talk). We proved Hirzebruch-like inequalities for these arrangements, and drew some corollaries about configurations of lines. Time (and audience) permitting, I will question the meaning of line and discuss some more speculative ideas.