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Invited lecture 5 : Towards a black+white Razumov-Stroganov conjecture

Thursday 20 November 2025 10:30 (1 hour)

In June 2024 the conference "Philippe60" was held in Saclay. I was a speaker. I talked about some conjectures on how the enumerations of VSASM's according to black and white link patterns appear to possibly coincide with the structure constants of some (so far unknown) deformations of canonical Grothendieck polynomials. I mentioned in the introduction of that talk the disappointment for the fact that we have no Razumov-Stroganov conjectures involving the black and white link patterns, despite the fact that the Wieland lemma, instrumental to the proof, deals with the two.

The disappointment turned into a new impulse to try that again, and finally something sensible came out. The results of this research will be our subject today !Spoiler! you will see: FPL configurations with cuts, cylindrical link patterns, loop models on finite cylinders...

Work in collaboration with Luigi Cantini.

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