Title: Cartwright-Sturmfels ideals associated to graphs and linear spaces
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Abstract:

Cartwright-Sturmfels (CS) and Cartwright-Sturmfels* (CS*) ideals will be introduced by Elisa Gorla in her talk. She will also present some classes of determinantal ideals which are CS and CS*.

Aim of this talk is to present some other classes of CS and CS* ideals coming from different ambits. In particular binomial edge ideals, multi-graded homogenizations of linear spaces, and multiview ideals are CS. This approach allows us to recover and generalize recent results of various authors.

Moreover I present a conjecture on the rigidity of local cohomology modules of Cartwright-Sturmfels ideals, that was inspired by a Theorem of Brion and that holds true for monomial ideals.