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OBSTRUCTIONS TO EQUALITY OF THE SECOND SYMBOLIC AND REGULAR POWERS OF TORIC IDEALS OF GRAPHS

I will present recent joint work with Elena Guardo and Grzegorz Malara. Let G be a bipartite finite simple graph and let I_G be its associated toric ideal. We will discuss recent progress made towards characterizing obstructions to the equality between the second symbolic power, $I_G^{(2)}$, and the second regular power, I_G^2.