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Critical Caffarelli-Kohn-Nirenberg inequalities via nonlinear scaling argument

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In this talk, we consider logarithmic weighted inequalities as a critical case of polynomial weighted inequalities which was shown by Caffarelli, Kohn and Nirenberg in 1984. This is a joint work with Yerkin Shaimerdenov(SDU University, Kazakhstan) and Hinako Sugimura(Nara Women's University, M2).