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Kyiv formula, its generalizations and applications

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I'm going to give an overview in the growing field that is developing after the formula by Gamayun, Iorgov, Lisovyy that expresses the general solution of Painlevé VI in terms of conformal blocks (Kyiv formula). This field now includes higher-rank generalizations, multi-point and toric generalizations, q-deformations, quantum deformations, expansions in the irregular region. I will tell some short stories about these generalizations done in different combinations, and also about related problems where the Kyiv formula can be used.

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