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From the Hitchin component to opers

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Gaiotto's conjecture (2014) is a particular construction of opers from Higgs bundles in one Hitchin component. The conjecture has been recently solved by a joint paper of Dumitrescu, Fredrickson, Kydonakis, Mazzeo, Mulase, and Neitzke (2016). In this talk, I will present a holomorphic description of the limiting oper, and its geometry. The importance of this correspondence, in particular the relation with the “quantum curve” of Dumitrescu - Mulase (2013) will be discussed.

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