

# What does the Alexander polynomial know about flat $\mathrm{PSL}(2,\mathbb{C})$ -connections?

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The Alexander polynomial is an invariant of links which appears in various places in low dimensional topology. In this talk I shall focus on a relation between the Alexander polynomial and the moduli space of flat stable  $\mathrm{PSL}(2,\mathbb{C})$  or  $\mathrm{PSL}(2,\mathbb{R})$  connections on closed 3-manifolds. Surprisingly, it turns out that the Alexander polynomial carries some information about the blow up behaviour of the sequences of flat stable  $\mathrm{PSL}(2,\mathbb{C})/\mathrm{PSL}(2,\mathbb{R})$ -connections.