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Generalized Pentagon Equations

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Vladimir Drinfeld defined his KZ associator by considering the monodromy of KZ equation along the real interval from 0 to 1 and proved that it satisfies the Pentagon equation. A natural question is that what kinds of equations will appear if we consider general curves with self intersections. I will try to talk about these equations for general curves, based on joint work with Anton Alekseev and Florian Naef.

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