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## Enumeration of curves via non-archimedean geometry

I will begin by explaining motivations from mirror symmetry. Then I will present some new results concerning tropical geometry and non-archimedean geometry. As an application, I will talk about the enumeration of curves in log Calabi-Yau surfaces. An explicit computation for a del Pezzo surface will be presented in detail. The enumeration is related to the notion of broken lines in the works by Gross-Hacking-Keel, where they are used to prove Looijenga's conjecture on the smoothing of cusp singularities.

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