

# The Painlevé problem, analytic capacity, and quasiconformal mappings

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## **Abstract**

The Painlevé problem consists of characterizing removable singularities for bounded analytic functions in a geometric way. In the 1940's, Ahlfors introduced the notion of analytic capacity to study this problem. In this lecture we will review the main contributions to this old problem by Ahlfors and many other mathematicians. If time permits, we will also discuss some recent connections with quasiconformal mappings.