

Seminari de Geometria Algebraica 2006/2007 (UB-UPC)

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<http://atlas.mat.ub.es/sga>

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## Uniformization of Deligne-Mumford analytic curves

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In my talk I will discuss the trichotomy hyperbolic/euclidean/spherical for (non-singular) Deligne-Mumford analytic curves. I will explain the classification of such curves by their uniformization types and use this to give an explicit presentation of a Deligne-Mumford curve as a quotient stack. In the spherical case, the classification makes use of the homotopy theory of crossed-modules. This is joint work with Kai Behrend.

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