



# A compactification of the moduli space of multiple-spin curves

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## Abstract

We construct a smooth Deligne–Mumford compactification for the moduli space of curves with an  $m$ -tuple of spin structures using line bundles on quasi-stable curves as limiting objects, as opposed to line bundles on stacky curves. For all  $m$ , we give a combinatorial description of the local structure of the corresponding coarse moduli spaces. We also classify all irreducible and connected components of the resulting moduli spaces of multiple-spin curves.

**Keywords** Spin curves · Compactification · Moduli · Theta-characteristics · Roots of line bundles

**Mathematics Subject Classification (2020)** 14H10 · 14D23 · 14B10

## 1 Introduction

The configuration of the 28 bitangents of a smooth quadric curve in the plane form a beautiful chapter in classical algebraic geometry [11, 34]. A similar structure is observed again with the 120 tritangents of a generic canonical space sextic [4, 7, 12, 30, 31] or, more generally, with the  $\binom{2g}{2}$  contact hyperplanes of a generic canonically embedded curve of genus  $g$  [9]. The unifying idea is that these hyperplanes correspond to odd spin structures on the curve, i.e., to square roots of the canonical bundle of the curve with a non-zero section.

In the study of algebraic curves, degeneration techniques play an important role. However, there is a technical gap prohibiting the study of “configurations”, or tuples, of spin structures on curves via degeneration: there is no compactification of the relevant moduli spaces that uses curves with line bundles as limiting objects. There are notable exceptions where this gap was partially addressed, or circumvented, with great success. Most prominently, the moduli space of spin curves was compactified by Cornalba [8] which gave rise to a complete Kodaira classification of the resulting spaces [16, 19]. These moduli spaces allow only for the study of a *single* spin structure on each curve. On the other extreme, Caporaso and Sernesi [9] considered the degeneration of *all* odd spin structures to prove that a generic curve is

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