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Abstracts of Short Communications and Posters

Section:

4. Algebraic Geometry

1991 MS Classification: 14

Esteves, Eduardo, IMPA, Brazil

Degenerations of Weierstrass points

In the mid 80's D. Eisenbud and J. Harris developed the general theory of limit linear series to explain what happens to a linear system and its ramification points on a smooth curve degenerating to a curve of compact type. In one of their papers on this subject they asked: "What are the limits of Weierstrass points in families of curves degenerating to stable curves *not* of compact type?" I will show how to answer this question first within the general framework of limit linear series, and then directly, assuming generic conditions.

Reference: Esteves, Eduardo, Linear systems and ramification points on reducible nodal curves, *To appear in Matemática Contemporânea.*