

## **Brody curves omitting hyperplanes**

Alexandre E. Eremenko, Purdue University, USA

Istanbul Analysis Seminars

19/06/2009

A holomorphic curve in the complex projective space of dimension  $n$  is called a Brody curve if its derivative has bounded norm with respect to the Euclidean metric in the domain and the Fubini-Study metric in the range. Such curves have order at most two, normal type. However, if the curve omits  $n$  hyperplanes in general position, then its growth does not exceed order one, normal type. This result was obtained by Hayman and Clunie for  $n=1$  (that is for meromorphic functions), and we generalized it to arbitrary  $n$ .