Limit laminations in euclidean and hyperbolic space

David Hoffman [1]

[1] Stanford University, USA

Resumo/Abstract:
We survey some famous results in the modern theory of embedded minimal surfaces, results that either in their statements or their proofs have to do with laminations. Then we describe, using results proved with Brian White, a sequence of embedded minimal disks that, according to one of the famous results, must have a surprising limit lamination. We conclude by turning our attention to minimal surfaces in hyperbolic three-space, focusing on two questions: does a complete minimal surface of finite topology have to be properly embedded?; how many minimal annuli are bounded by a pair of circles in parallel totally geodesic planes?