

Do limit sets move continuously?

C. Series
(University of Warwick)

This talk will be about limit sets of Kleinian groups. It is well known that for a parametrized family of quasifuchsian groups, its limit points (points in the closure of the set of fixed points) move continuously as a function of the parameter.

But what happens when a sequence of quasifuchsian groups converges to a group G which is not quasifuchsian?

We will investigate various scenarios, discussing the different types of convergence and some different possible geometries for the group G . We show that although in general limit points still move continuously, the detailed behaviour is quite subtle and the unexpected may also occur.

This is joint work with Mahan Mj.