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Circle actions on the boundary of Schottky space

To a complex parameter c, we associate the two-generator iterated function system $f(x)=cz-1$, $g(z)=cz+1$. I'll describe how the IFS for certain parameters (those on the boundary of the connectedness locus) can give rise to circle actions. A finite amount of data encoded in these circle actions describes the set of cut points in the limit set of the IFS. In addition, these circle actions can be thought of as double covers of Lorenz maps and generalizations. This talk should be broadly accessible, and pictures will be provided. This is joint work with Danny Calegari, building on previous work with Danny Calegari and Sarah Koch.