## CHRISTOPHER JAMES LANG, University of Waterloo

Spherically symmetric hyperbolic monopoles

Hyperbolic monopoles are solutions to the Bogomolny equations, a system of partial differential equations on hyperbolic 3-space, though few examples exist. Using a correspondence with circle-invariant instantons, we reduce the problem of finding spherically symmetric hyperbolic monopoles (solving differential equations) to a problem in the realm of representation theory, providing much needed examples of these objects.