CORNERS OF THE MONOPOLE MODULI SPACES

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The moduli space M_k of euclidean magnetic monopoles of charge k is known to have a number of 'asymptotic regions'. In the compactification of M_k as a manifold with corners, the intersections of these regions correspond to corners of codimension > 1. A neighbourhood in the moduli space of a corner of codimension d parameterizes families of monopoles obtained by gluing monopoles at a configuration of points characterized by d different length-scales. This talk, which is based on joint work with Karsten Fritzsch and Chris Kottke, will report on the uniform construction of such families of monopoles.