BENOIT CHARBONNEAU, Duke University, Durham, NC, USA
Singular monopoles on the product of a circle and a surface

In this talk, I will discuss work done with Jacques Hurtubise (McGill) to relate singular solutions to the Bogomolny equation on a circle times a surface to pairs [holomorphic bundle, meromorphic endomorphism] on the surface. The endomorphism is meromorphic, generically bijective, and corresponds to a return map. Its poles and zeros are related to the singularities of the corresponding solution to the Bogomolny equation.

This talk is based on arXiv:0812.0221.