

*Fourier–Mukai and Nahm*  
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## Magnetic monopole boundary value problems

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### **Abstract**

Kapustin and Witten introduced interesting boundary value problems for magnetic monopoles on a Riemann surface times an interval. They described the moduli space of such solutions in terms of Hecke modifications of holomorphic bundles over the Riemann surface. I will explain this and in particular focus on the existence and uniqueness problem arising out of geometric invariant theory ideas.