

**Conference Talk.**

*On cyclic Higgs bundles*

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**Abstract:** The non-abelian Hodge theory gives a correspondence between the moduli space of representations of the fundamental group of a surface into a Lie group  $G$  with the moduli space of  $G$ -Higgs bundles over the Riemann surface. The correspondence is through looking for an equivariant harmonic map to the symmetric space associated to  $G$ , to a given representation or a given Higgs bundle. We discover some geometric properties of such harmonic maps associated to cyclic Higgs bundles.

*The talk is part of the 2-day meeting <http://schapos.people.uic.edu/SpectralhiggsIII.html> "Current trends on spectral data for Higgs bundles III"*

Monday, November 13 at 11:00 AM in SEO 636
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