TEXAS ★ STATE
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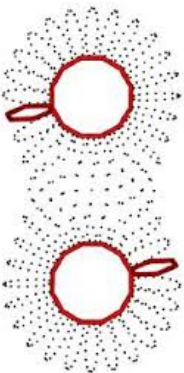*The rising* STAR *of Texas*

Topology Seminar

2018, March 30, Friday, 11:00-11:50 a.m., in DERR 334

Speaker: Dr. Jorge Acosta

Title: *The Limits of Opers*

ABSTRACT

Given a Riemann surface $X = (\Sigma, J)$ we find an expression for the dominant term for the asymptotics of the holonomy of opers over that Riemann surface corresponding to rays in the Hitchin base of the form $(0, 0, \cdots, t\omega_n)$. Moreover, we find an associated equivariant map from the universal cover $(\tilde{\Sigma}, \tilde{J})$ to the symmetric space $\mathrm{SL}_n(\mathbb{C})/\mathrm{SU}(n)$ and show that limits of these maps tend to a sub-building in the asymptotic cone. That sub-building is explicitly constructed from the local data of ω_n.