**Notetaker Name:**Paulina Rodriguez

**Lecture’s Name:**Jennifer Schultens

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**Talk Title:**Knots and Surfaces in 3-Dimensional Space

**Date:** 03 / 14 / 2012  
**Time:** 11:30 to 12:30 am

**Please have either the lecturer/yourself, fill in the following when lecture is done**

**1. List 6-12 lecture keywords:**

knots, interdisciplinary (within math and other fields in science), seifert surfaces, spanning surfaces, seifert circles, kakimizu complex, flag complex

**2. Please summarize the lecture in 5 or fewer sentences.**

Applications and uses of knots are found in all branches of math (i.e. geometry, algebra) and science (i.e. DNA strands). To study knots we look at properties such as, every knot admits a spanning surface (via Seifert circles). A relevant example is the Kakimizu complex.