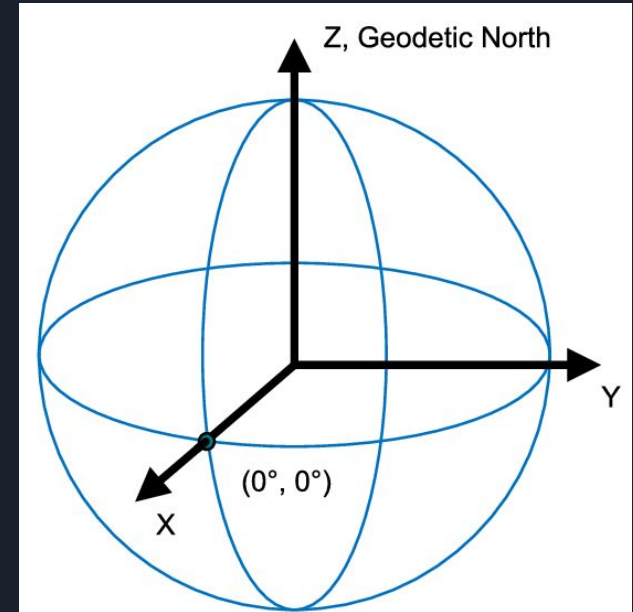
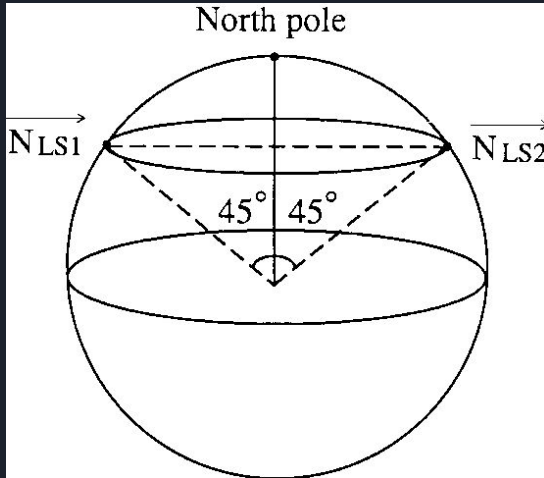
A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one partially covering the green one.

Witsenhausen's Problem

Michael Huang

Problem Statement

- What is the largest non-orthogonal set on the surface of a unit n-dimensional sphere?
- Double Cap Conjecture





Applications

- Chromatic Number of Real Space
- Chromatic Number Applications
 - Scheduling
 - Radio Frequency Assignments



Proposal

I will improve on Decorte's upper bound to Witsenhausen's problem using probabilistic methods, moving us closer to proving the double cap conjecture.