Sudipta Kolay

ICERM Institute postdoc

PHD Georgia Tech, 2021
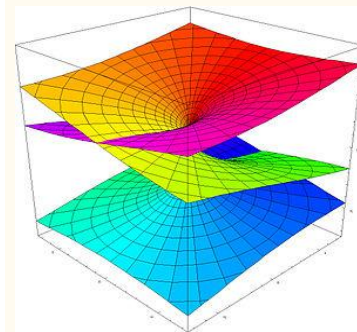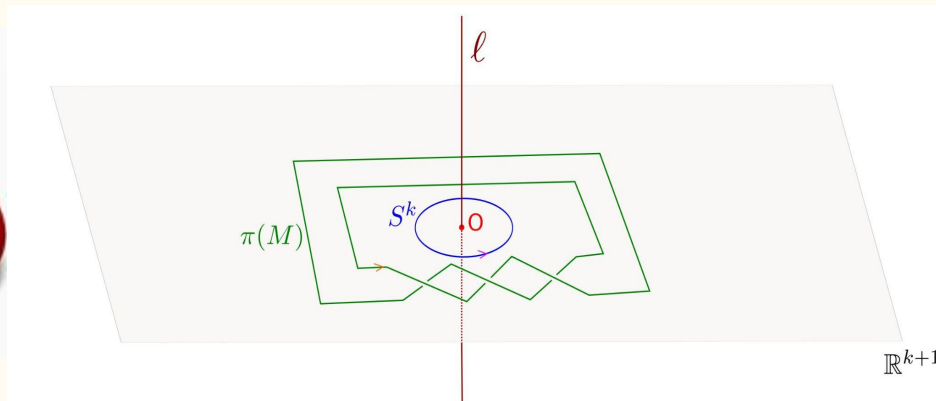Advisor: John Etnyre

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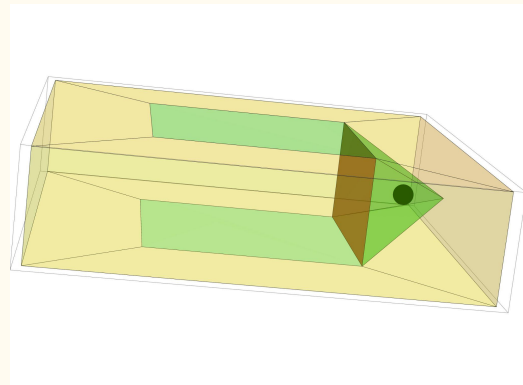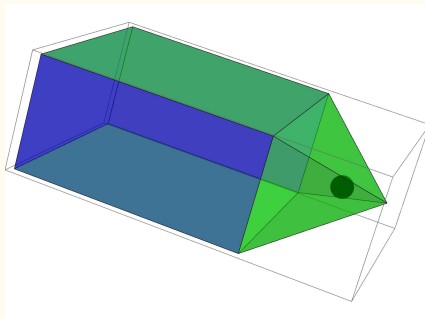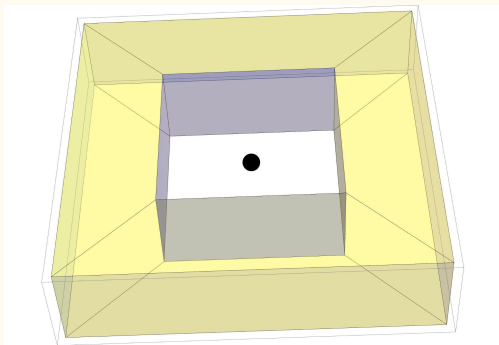
Research Interests

- Geometric Topology
  - embeddings, knottings, braidings, branched coverings

- Contact and Symplectic Geometry
- Combinatorial/Geometric Group Theory

Braiding in higher dimensions

A braided embedding is an embedding to a product disc bundle so that projection is a branched covering.

I am interested in the *Existence*, *Lifting* and *Isotopy* problems for braided embeddings.

Interactions with other areas

- Contact and symplectic geometry

- Existence of nice branched covers

- Combinatorial/Geometric Group Theory
  - Homomorphisms to braid groups
  - Quotients of braid groups