

**SPEAKER:**

Yakov Shlapenkoth-Rothman, University of Toronto

**TITLE:** Self-Similarity and Naked Singularities for the Einstein Vacuum Equations

**ABSTRACT:**

We will start with an introduction to the weak cosmic censorship conjecture and the problem of constructing naked singularities for the Einstein vacuum equations. Then we will explain our discovery of a new type of self-similarity and explain how this allows us to construct the desired naked singularity solutions.