## 1146-57-407 **Kyle Hayden\***, hayden@math.columbia.edu, and **Lisa Piccirillo**. *Knots admitting the same non-integral Dehn surgery*. Preliminary report.

The past two decades have seen significant progress on the problem of determining when Dehn surgery on distinct knots yields the same 3-manifold. After reviewing this progress, we present a method for producing pairs of knots sharing a non-integral Dehn surgery with any chosen slope p/q. This provides the first examples of non-characterizing slopes that are not of the form n + 1/m for integers n and m, answering a question of Baker and Motegi. Moreover, our construction provides strong evidence for the conjecture that every slope is non-characterizing for some knot, partially resolving a question of Ni and Zhang. This is joint work with Lisa Piccirillo. (Received January 28, 2019)