

# How to solve it?

Proseminar

Vorbesprechung am

Dienstag, 7. Dezember 10:00 Uhr  
in 00.10.011

[www-m9.ma.tum.de/WS2010/IMCSEminar](http://www-m9.ma.tum.de/WS2010/IMCSEminar)

## Problem:

A theatre has 137 seats and every ticket is sold for this evening's performance. The theatre goers arrive in random order. Unfortunately the 17th theatre goer is drunk and goes to a random seat, instead of his assigned seat. He sits down and immediately falls asleep. Subsequently, when a patron arrives and finds their seat already taken, they take a random seat. What is the probability that the last patron finds their assigned seat empty?