

# Normal numbers and perfect necklaces

Verónica Becher

Universidad de Buenos Aires, Argentina

**Abstract:** The most famous example of a normal number is Champernowne’s constant  $0.123456789101112\dots$ . Although the definition is very simple, the original proof of normality requires quite some work. In this talk I present “perfect necklaces”, a combinatorial object that yields a simple proof of Champernowne’s normality result. And with a class of them, the “nested perfect necklaces”, I explain M. Levin’s constant, the number with the fastest known speed of convergence to normality.