Universität Konstanz

# Visualizing Hyperbolic Geometry

## A talk by Dr. Irem Portakal from Otto-von-Guericke-University in Magdeburg in „Konstanz Women in Mathematics“ lecture series.

Thursday, $17^{th}$of June 2021, 5PM (online)

**Abstract:** The parallel postulate, also known as the fifth postulate of Euclidean geometry has been a subject of discussion for a long time. This gave rise to non-euclidean geometries, including hyperbolic geometry. However, there was no success to create a physical model for a hyperbolic surface, until Daina Taimina constructed a crochet hyperbolic plane and many other similar constructions followed. This significant breakthrough filled a big gap for understanding hyperbolic geometry, enabling people to actually see and touch a surface. In this talk, we hear about a brief history of hyperbolic geometry and the revolutionary out-of-the-box thinking of Daina Taimina for visualizing it. Only an interest in a different point of view in mathematics is required.

This special talk is organised in celebration of Women in Mathematics Day ($12^{th}$ of May). No pre-knowledge of (hyperbolic) geometry is required.
To join it on Zoom please click here
Meeting ID: 994 6169 3598
Passcode: 712987

Photo courtesy: Prof. Daina Taimina

**Konstanz Women in Mathematics (KWIM)**