

## Dr. Haizhong Li

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Haizhong Li is Professor at Tsinghua University, Beijing. He received his doctoral degree from the University of Novi Sad in former Yugoslavia in 1993 . He did his postdoctoral work in Chinese Academy of Sciences from 1993 to 1995. Then he has worked in Tsinghua University since 1995. He was Alexander von Humboldt Fellow from 2001-2002. His main area of research is in the field of Differential Geometry and Geometric Analysis. Together with Ben Andrews, Haizhong Li has completely solved the famous Pinkall-Sterling Conjecture: all embedded CMC tori in a three sphere are rotational surfaces. Haizhong Li received the second Award of the State Natural Science Award of China (2019), and the first Prize of Natural Sciences Award by the Ministry of Education of China (2018).

Title: Inverse mean curvature flow and Steklov eigenvalue in hyperbolic space

### Abstract:

In this talk, by inverse mean curvature flow we establish optimal Weinstock inequality for the first non-zero Steklov eigenvalue on star-shaped mean convex domains in hyperbolic space  $\mathbb{H}^n$  . In particular, when the domain is convex, we give an affirmative answer to an open question by Colbois-Girouard-Gordon-Sher.