## THE RELATIVE ISOPERIMETRIC PROBLEM FOR MINIMAL

## SURFACES

Speaker：Liangjun Weng Shanghai Jiao Tong University

Time：Tue，Apr．6th，15：00－16：00
Tencent ID：207506 127
Abstract：In this talk，we will discuss the relative isoperimetric problem， which dates back to the Queen Dido in ancient Carthage era．Following X． Cabrl＇\｛e\}'s ABP (Alexandroff-Bakelman-Pucci) method, we prove the relative isoperimetric inequalities for the minimal surfaces in Euclidean space，which is optimal when the codimension is less than 2．In other words， we obtain a free boundary relative version of isoperimetric inequalities for the minimal surfaces in Euclidean space proved by S．Brendle （arXiv：1907．09446）．This talk is based on joint work with Prof．Lei LIU and Prof．Guofang WANG．

