

MATH COLLOQUIUM

Legendrian knots and open book decompositions

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Time : 14:00

Place : TB 250, Boğaziçi Üniversitesi

Abstract: Due to Alexander, it is well known that every closed oriented 3-manifold has an open book decomposition. In this talk, we will define open book decompositions and discuss various examples in detail. Further, we will discuss the importance of the open books in manifold theory, in particular in contact geometry. After a brief introduction on contact 3-manifolds, we will focus on a class of knots in contact 3-manifolds called Legendrian knots. We will define a new invariant for Legendrian knots using open book decompositions and we will discuss applications of this invariant. This talk aims to reach general audience.

Tea and coffee will be served at 15:00