

TFM: Guillermo Sánchez Arellano

Curso: 2017-2018

Título: Special position open books.

Director: Francisco Presas Mata

Resumen:

Giroux' correspondance establishes a bijection between the space of contact structures modulus isotopy and the set of a special class (Donaldson) of open book decompositions modulus positive stabilizations. In particular, it tells that for any contact structure, there is a Donaldson adapted open book decomposition. We generalize the result saying that for any pair contact structure plus Legendrian submanifold on it, there exists a Donaldson adapted open book decomposition one of whose pages contains the Legendrian submanifold. The aim is to offer a precise proof of this folklore result.