

ON THE TIGHTNESS OF CONTACT STRUCTURES AND DEHN SURGERY ALONG TRANSVERSE LINKS

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The positive tight contact structure on S^3 is derived from an open-book decomposition of S^3 whose fiber is obtained from a disk by plumbing positive Hopf bands. In this situation the boundary of the fiber is a transverse link in the contact structure. We discuss Dehn surgery along such a transverse link which preserves the tightness of contact structures.

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