1108-57-391

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We consider the problem of tightness of a contact structure obtained by contact surgery along a Legendrian knot in the three-sphere, with positive rational surgery coefficient. Our main tool is a generalization of a theorem of Baldwin on the effect on the Ozsváth-Szabó contact invariant of capping off of binding components of open book decompositions. We will describe this result and outline the applications to positive rational contact surgeries, which complement and extend work of Golla and Lisca-Stipsicz. (Received January 19, 2015)