# Examples on Strongly Fillable but not Stein Fillable Contact 3-manifolds: $(-\Sigma(2, 2g + 1, 2(2g + 1)n - 1), \mu_0)$

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### Abstract

In this talk, we will show that the 3-manifold $-\Sigma(2, 2g + 1, 2(2g + 1)n - 1)$ admits a contact structure $\mu_0$ which is strongly fillable but not Stein fillable. We will explain how to produce $(-\Sigma(2, 2g+1, 2(2g+1)n-1), \mu_0)$ and show that $\mu_0$ is strongly symplectically filllable. If time permit, we will prove the non-Stein fillability of $\mu_0$ using the contact invariants in Heegaard-Floer theory.

**Date :** Wednesday, May 18, 2016

**Time :** 14:30

**Place:** IMBM Seminar Room, Boğaziçi University South Campus