Speaker: **Morimoto, Kanji**
Title: *On Hoidn's inequality*
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Abstract: Let K be a knot in the 3-sphere S^3 and $g_1(K)$ the 1-bridge genus of K. Concerning the additivity of the 1-bridge genus under connected sum, P. Hoidn showed that $g_1(K_1 \# K_2) \geq g_1(K_1) + g_1(K_2)$ if both K_1 and K_2 are small. In this talk we generalize the result. In fact we show that $g_1(K_1 \# K_2) \geq g_1(K_1) + g_1(K_2)$ if both K_1 and K_2 are meridionally small. In addition, we discuss the best possibility on the inequality.