Freedman 原論文に学ぶ 資料 1 (by 山田裕一)

Casson-handle の構成 と Kirby diagram

研究集会「Casson-Freedman 理論 研究会」(2009年10月)の参考のために作成しました. 集会後に一部 修正しました.

修正点 (10 月 22 日, 2009 年)

・Casson handle の signed tree 表示では edge に 符号が付く. (旧版では vertex に符号をつけていた.)

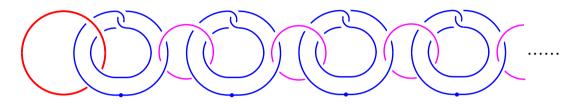


Figure 1: Diagram of the simplest CH

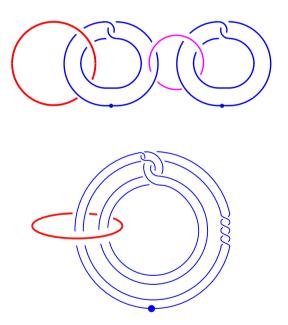


Figure 2: 2nd Whitney tower \leftrightarrow Whitehead link W_2

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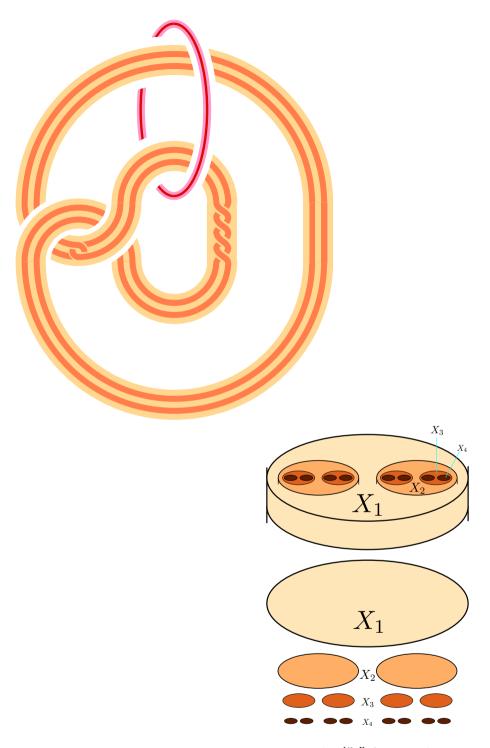


Figure 3: Whitehead link W_n (一般化して X_n)

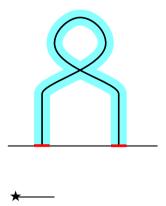


Figure 4: The 1st Whitney Tower

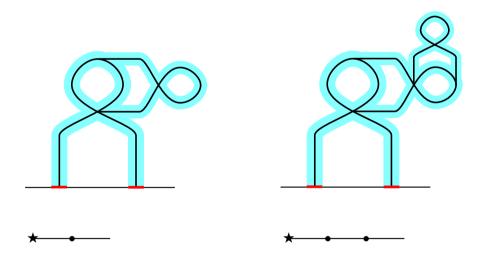


Figure 5: The 2nd/3rd Whitney Tower

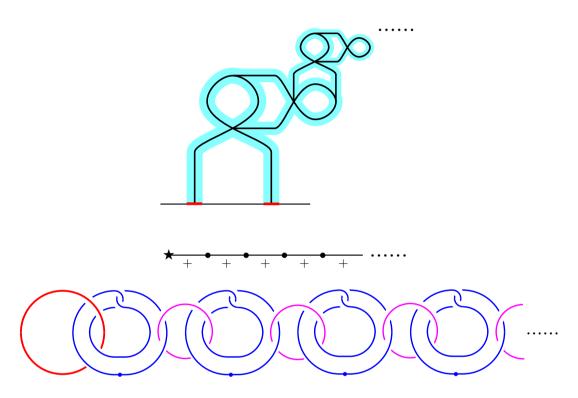


Figure 6: The simplest CH (with signs) $\,$

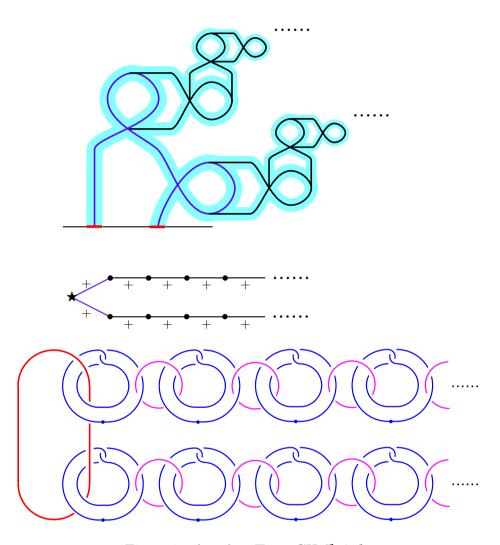


Figure 7: Another Type CH $\not < \mathcal{O}$ 1

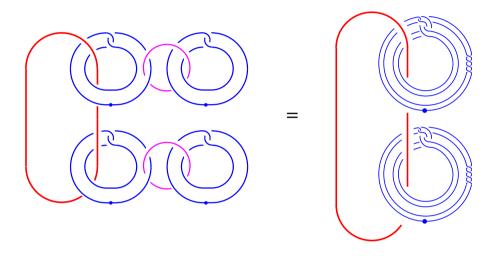


Figure 8: Another Type CH その 1 (2階までの変形)p.396

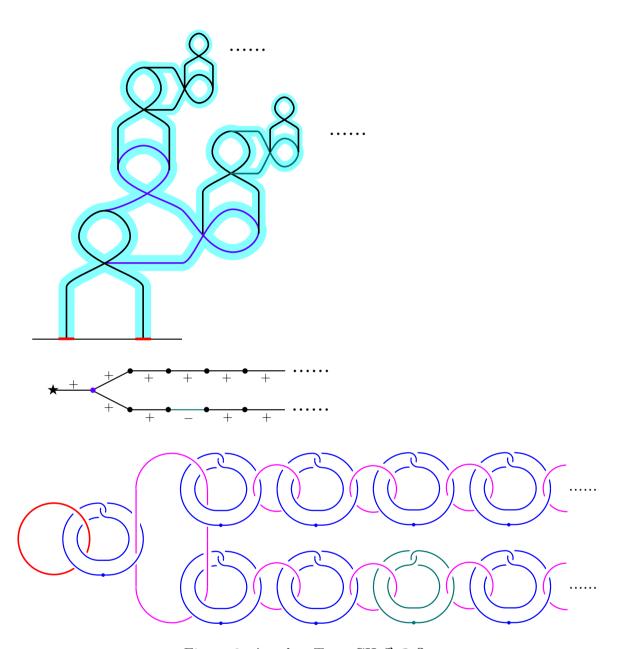


Figure 9: Another Type CH $\stackrel{>}{\sim} \mathcal{O}$ 2