

On Double-Torus Links

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December 19, 2013

$$\sigma_n^+(x) =$$

$$p_2 - \{n - ((x + n - p_2) \bmod (p_2 - p_1) + p_1 + q_2) \bmod p_2\} \bmod p_2 \quad \text{if } \leq x \leq p_2 - p_1,$$

$$p_2 - (n - ((x + n - p_2 - q_1) \bmod p_1) + q_2) \bmod p_2 \quad \text{if } p_2 - p_1 + 1 \leq x \leq p_2$$

$$\sigma_n^-(x) =$$

$$\begin{aligned} & ((x + t(n)) \bmod (p_1 + p_2) + r(n)) \bmod p_1, \\ & \text{if } 1 \leq (x + t(n)) \bmod (p_1 + p_2) \leq p_1 \end{aligned}$$

$$\begin{aligned} & (((x + t(n)) \bmod (p_1 + p_2) - p_1 + s(n)) \bmod p_2 + \\ & p_1, \\ & \text{if } p_1 + 1 \leq (x + t(n)) \bmod (p_1 + p_2) \leq (p_1 + p_2) \end{aligned}$$

Thank you