Braids group

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Título

puras chingonerías



Puras chingonerías

The n-strand braid groups B_n has the presentation:

$$B_n = \langle \sigma_1, \dots, \sigma_{n-1} \mid \sigma_i \sigma_j = \sigma_j \sigma_i \text{ for } |i-j| \geq 2, \sigma_i \sigma_{i+1} \sigma_i = \sigma_{i+1} \sigma_i \sigma_{i+1} \rangle.$$



Pure braids

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Dibujo de pure braid



Pure braids

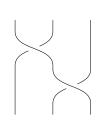
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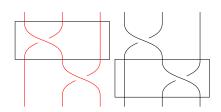
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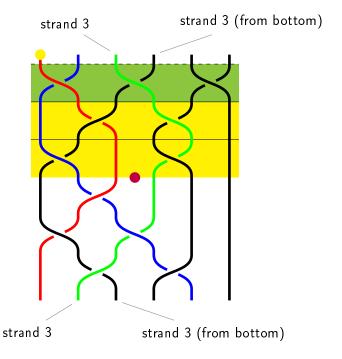
Dibujo de pure braid

Theorem

The pure braid group P_n is biorderable for all $n \ge 1$.









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Proposition

There is an isomorphism $B_n \cong \mathcal{MCG}(D_n)$, where D_n is the disk D^2 with n regularly spaced points.



Order in B_n

 σ -positive subword property

Proposition

Thanks.