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## Cosmetic crossings of genus one knots

Cheryl Balm, Efstratia Kalfagianni

(Submitted on 11 Jul 2011)

We show that for genus one knots the Alexander polynomial and the homology of the double cover branching over the knot provide obstructions to cosmetic crossings. As an application we prove the nugatory crossing conjecture for the negatively twisted, positive Whitehead doubles of all knots. We also verify the conjecture for several families of pretzel knots and all genus one knots with up to 10 crossings.

Comments: 9 pages, 5 Figures

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