

- Calculating π_1 of the knot complement.
- Finding Seifert matrices.
- Calculating the Alexander polynomial.
- Calculating the signatures.
- Computing the linking form on the double cover.
- Computing the Heegaard Floer chain complexes of L -space knots, negative L -space knots, their sums, and the figure-eight knot.
- Computing d -invariants of the double branched cover of an alternating knot.
- Computing V_m from the Heegaard Floer chain complex.
- Computing Heegaard Floer homologies and d -invariants of large surgeries.
- Using concordance and unknotting obstructions from the above data.

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