

Arc index of prime knots up to 11 crossings

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By generating all n by n Cromwell matrices for $n = 5, 6, \dots, 11$, we create the Dowker-Thistlethwaite notations of all nontrivial arc presentations up to 11 arcs. At this time, we are generating 11 by 11 Cromwell matrices. Using Knotscape, we identify the prime knots created among them. We expect that this list includes all nonalternating knots up to 11 crossings. If so, we will be able to report the arc index of all prime knots up to 11 crossings.

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