

Upper Bounds for Equilateral Stick Numbers

Eric J. Rawdon and Robert G. Scharein

ABSTRACT. We use algorithms in the software KnotPlot to compute upper bounds for the equilateral stick numbers of all prime knots through 10 crossings, i.e. the least number of equal length line segments it takes to construct a conformation of each knot type. We find seven knots for which we cannot construct an equilateral conformation with the same number of edges as a minimal non-equilateral conformation, notably the 8_{19} knot.

1. Introduction

Knotting and tangling appear in many physical systems in the natural sciences, e.g. in the replication of DNA. The structures in which such entanglement occurs are typically modeled by polygons, that is finitely many vertices connected by straight line segments. Topologically, the theory of knots using polygons is the same as the theory using smooth curves. However, recent research suggests that a degree of rigidity due to geometric constraints can affect the theory substantially. One could model DNA as a polygon with constraints on the edge lengths, the vertex angles, etc.. It is important to determine the degree to which geometric rigidity affects the knotting of polygons. In this paper, we explore some differences in knotting between non-equilateral and equilateral polygons with few edges.

One elementary knot invariant, the *stick number*, denoted here by $\text{stick}(K)$, is the minimal number of edges it takes to construct a knot equivalent to K . Richard Randell first explored the stick number in [Ran88b, Ran88a, Ran94a, Ran94b]. He showed that any knot consisting of 5 or fewer sticks must be unknotted and that $\text{stick}(\text{trefoil}) = 6$ and $\text{stick}(\text{figure-8}) = 7$. Negami [Neg91] used graph theory to provide the first lower bounds for the stick number in terms of the crossing number, $\text{stick}(K) \geq \frac{5 + \sqrt{9 + 8cr(K)}}{2}$.

Several other researchers have provided bounds for the minimal stick number in terms of various knot invariants and have determined the exact stick number for some classes of knots. Using the superbridge index, Jin and Kim [JK93] determined bounds for the stick number of (p, q) torus knots. Jin [Jin97] later extended

1991 *Mathematics Subject Classification.* Primary 57M25, 57M27.

Key words and phrases. Physical Knot Theory; Polygonal Knots; Stick Number; Equilateral Stick Number; Experimental Mathematics.

Supported by NSF Grants #DMS0074315 and #DMS0296098.

Supported by NSERC, MAGIC, PIMS, and CECM.

this work, proving that the stick number of a (p, q) torus knot with $2 \leq p < q < 2p$ is exactly $2q$. Working independently, Adams, Brennan, Greilsheimer, and Woo [ABGW97] showed that the stick number of a $(p - 1, p)$ torus knot is exactly $2p$. Jin [Jin97] and Adams et al. [ABGW97], independently showed that when one composes two knots, $\text{stick}(K_1 \# K_2) \leq \text{stick}(K_1) + \text{stick}(K_2) - 3$. Citing the limitations in using the superbridge index in bounding the stick number, Furstenberg, Li, and Schneider [FLS98] introduced the radial maximum function and showed that the stick number is bounded below by it. They also determined an upper bound for the stick number of 1, 2, and 3-integer Conway knots. Meissen [Mei97, Mei98] constructed conformations of several knots realizing the stick number by using the knot visualization program KED [Hun]. Concentrating on 2-bridge knots, McCabe [McC98] showed that $\text{stick}(K) \leq \text{cr}(K) + 3$.

In computing the stick number, one explores the knot space $\text{Geo}(n)$ consisting of all polygonal knots with n edges. By choosing a base vertex and an orientation, a polygonal knot can be viewed as a point in \mathbb{R}^{3n} : One simply lists the x , y , and z -coordinates of each vertex beginning at the base vertex and proceeding in the direction determined by the orientation. Thus, $\text{Geo}(n)$ can be thought of as a subspace of \mathbb{R}^{3n} . There are no restrictions on the edge lengths of knots in $\text{Geo}(n)$ and the edge lengths are free to change in deformations within the space.

Calvo has determined the number of different knot component in $\text{Geo}(n)$ for small n . He [Cal98, Cal01a, Cal01b] has shown that there exist five components in $\text{Geo}(6)$ consisting of two components each of right and left-handed trefoils and one unknot component. The space $\text{Geo}(7)$ has five components, one each for the unknot, left-handed trefoil, and right-handed trefoil and two components of the figure-8 knot. Topologically, the figure-8 knot is reversible, but in $\text{Geo}(7)$, it is not. Calvo [Cal01b] also increased the lower bound provided by Negami to $\text{stick}(K) \geq \frac{7 + \sqrt{8\text{cr}(K) + 1}}{2}$.

The study of other knot spaces has provided interesting results related to the stick number. Cantarella and Johnston [CJ98] studied spaces of knots in which the length of the edges are fixed (and not equal) throughout deformations. They proved that there exist spaces of knots for which the unknot has more than one connected component. Furthermore, knot spaces can be defined for which any knot type has an arbitrary large number of connected components. Thus, the study of polygonal knot spaces has revealed a degree of geometric rigidity not present in the topological knot theory.

Millett and Calvo [Mil94a, Mil94b, Mil01, CM98] have used Monte Carlo explorations of $\text{Geo}(n)$ to find conformations of knot with few edges. They provide tables in [CM98] and [Mil01] charting the progress of finding low edge knot conformations of knot types through 9 crossings. Although Monte Carlo searches are interesting in their own right, they have not been effective at finding upper bounds for the stick number of large sets of knots. The data presented in [CM98] showed no improvement over the earlier results in Scharein's thesis [Sch98]. In that work, Scharein found minimal stick candidates for all prime proper knots through 10-crossings (as well as all prime links to 9-crossings) using KnotPlot. Random and deterministic "forces" were applied to the knot to achieve conformations with few edges. We use this large database as a starting point for our exploration of the equilateral stick number.

For some of the knots found in [Sch98], we know that the conformations are truly minimal because of lower bounds determined by other researchers. Other knot conformations are merely *minimal stick candidates*, i.e. no proof is known to show that they are minimal. In these cases, the data provides the *provisional stick number*, denoted by $\text{stick}_p(K)$, which is an upper bound on $\text{stick}(K)$.

In this paper, we are interested in understanding the minimum number of sticks required to create an *equilateral polygon* of a given type, which we call the *equilateral stick number*, $\text{eqstick}(K)$. We use the software KnotPlot [Sch02] to find equilateral conformations for all knots through 10-crossings with a minimal number of edges. Little is known about the equilateral stick number. Certainly, $\text{eqstick}(K) \geq \text{stick}(K)$, but are there knot types for which $\text{eqstick}(K) > \text{stick}(K)$ or $\text{eqstick}(K) > \text{stick}(K) + 1$?

One can also define $\text{Equ}(n)$, the subspace of $\text{Geo}(n)$ consisting of all equilateral knots with n edges. Here, one need only study the set of polygons based at the origin with total length one to understand the whole space. Any other knot in $\text{Equ}(n)$ is related to such a knot by a homothety. Monte Carlo searches in [CM98] suggest that the growth rate of knot types in $\text{Equ}(n)$ is slower than the growth rate of knot types $\text{Geo}(n)$ as n tends to infinity. If that is the case, then many knots have $\text{eqstick}(K) > \text{stick}(K)$. However, the different growth rates could simply be an artifact of the Monte Carlo search. Suppose we have a knot type K whose stick number is n . The path component associated with K in $\text{Geo}(n)$ is likely to be very small relative to the whole space. The subcomponent associated with equilateral knots of the same type (if it exists) will likely be a tiny portion of the component. Thus, it may be much more difficult to find these small pockets of equilateral conformations of K . Just as for the non-equilateral case, we introduce the *provisional equilateral stick number*, $\text{eqstick}_p(K)$, which is an upper bound on $\text{eqstick}(K)$. Our computer simulations suggest that the equilateral stick number may in fact be larger than the stick number for some knots, the first such occurrence being the 8_{19} knot. However, we provide no proofs that any of these conformations are minimal.

A topic related to the stick number is the lattice number, that is the minimal number of edges required to create a knot on a lattice. This quantity is lattice dependent, but most of the results have assumed the lattice \mathbb{Z}^3 . Diao [Dia93] was the first to find the lattice number for a non-trivial knot. He showed that a non-trivial lattice knot must have at least 24 edges, and that the trefoil is the only knot that can be made of 24 edges. In a subsequent article, [Dia94] Diao exhibited the 3496 unrooted trefoils with 24 edges. Janse van Rensburg and Promislow [JvRP95] used simulated annealing to find low edge lattice conformations through 60 edges. They found 46 different knot types that could be represented with 60 edges or fewer and explored the growth rate in the lattice number for the composition of n copies of a given knot type.

2. Almost Equilateral Knots

Of course, calculating equilateral stick numbers on a computer is problematic: The finite precision of computers takes us from the realm of equilateral knots to “almost equilateral” knots. Working with arbitrary precision can strengthen the case for existence, but a mathematical proof is more attractive. In [Jin97] and [FLS98], conformations of torus knots were constructed using sticks lying on

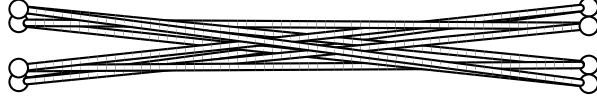


FIGURE 1. Collapse of the 8_{19} knot as it approaches an equilateral state.

hyperboloids (these conformations were not equilateral). One could attempt to construct each of the knots presented here on a surface for which we could explicitly compute the edge lengths. Such constructions, however, are not in the spirit of this paper. We wish to compute equilateral stick numbers quickly without restricting ourselves to certain classes of knots.

Instead, we use a theorem due to Millett and Rawdon [MR01] to insure that equilateral conformations exist near our “almost equilateral” knots. Given a polygonal knot K with an average edge length of exactly 1, let $MD(K)$ be the minimum distance between any two non-consecutive edges of K and let L_i denote the length of the i^{th} edge. If

$$(2.1) \quad |L_i - 1| < \min\{MD(K)/n, MD(K)^2/4\},$$

then an equilateral knot exists with the same knot type as K . The theorem illuminates the delicate balance between the knot being close to equilateral and non-adjacent edges of the knot becoming arbitrarily close. For knots in which it appears that $\text{stick}(K) < \text{eqstick}(K)$, letting non-consecutive edges become arbitrarily close improves how close we can get to an equilateral knot. During the generation of the data in [MR01], the 8_{19} was identified as the first case for which one had no equilateral knot with the same number of edges as the polygonal knot. Using perturbations to construct an arbitrarily close approximation to an equilateral knot, Millet and Rawdon observed that the closer to equilateral the configuration became, the closer the vertices came to all lying in a plane. This phenomenon is exactly that observed by Calvo in his proof that there is no polygonal 8_{18} with eight edges [?]. As a consequence, this 8_{19} example was proposed as a candidate distinguishing between $\text{eqstick}(K)$ and $\text{stick}(K)$. Our experiments also suggest that the 8_{19} knot can be made arbitrarily close to an equilateral 8-gon. However, we never obtain a conformation for which the theorem guarantees the existence of an actual equilateral knot. Figure 1 shows what happens with the 8-stick 8_{19} knot as it approaches an equilibrium configuration. The knot appears to “collapse” into 8 nearly colinear line segments. The configuration shown fails the condition in Equation 2.1 by more than a factor of 15.

3. Experimental technique and results

The method used to compute minimal stick candidates in [Sch98] is exceedingly simple. It involves alternating phases of random agitation of the knot and “opportunistic” vertex deletion. Both the random agitation and vertex deletion are done by KnotPlot in a manner that preserves knot type. The initial configuration for the knot is essentially arbitrary; the configurations in KnotPlot’s standard catalogue were used in most cases. For a few knots, a direct construction from the Conway notation for the knot was used instead. Despite this algorithm’s apparent naïvety, the method works very well, usually finding a minimal stick candidate in a few minutes of computer time. Some knots, however, can require much more time

(sometimes many hours) on typical workstations. Examples of “difficult knots” are the knot 7_1 and the torus knots $K_{p,p+1}$ for $p > 5$. For more detail on these techniques, we refer the reader to [Sch98], which also contains many pictures of the minimal stick candidates and representatives.

In this paper, we found equilateral conformations for all prime knots to 10 crossings by starting with the non-equilateral data of [Sch98]. KnotPlot was used to simulate a dynamical system where the vertices of the knot are connected by springs that have a unit rest length. All other of KnotPlot’s usual forces were turned off. Using these dynamics, knots would often move immediately to a nearly equilateral state, but in many cases a phase of random agitation was required before the knot would relax in this way.

Perhaps surprisingly, for 242 of the 249 prime knots¹ to 10 crossings, this method succeeds in finding equilateral versions with the same stick numbers as their non-equilateral counterparts. That is, for these knots $eqstick_p(K) = stick_p(K)$. The seven “problem knots” are 8_{19} , 9_{29} , 10_{16} , 10_{79} , 10_{107} , 10_{119} , and 10_{147} . For each of these knots, we find that $eqstick_p(K) = stick_p(K) + 1$.

Figure 2 shows orthographic projections for three of the equilateral knots found. These knots are shown in a minimal energy conformation for the minimum distance energy E_{MD} [Sim96]. After being brought into an equilateral conformation, all of the knots presented in this paper were relaxed in this manner. For the energy minimization, we used “crankshaft rotations”, popularized by Millett [Mil94b], which preserve edge length. As Simon has shown, energy minimized knots often reveal interesting symmetries when viewed in an orthographic projection along one of the principal axes of inertia. The knots in Figure 2 exhibit this property, but most knots do not reveal their symmetries so easily, as the examples in Figure 3 show (with the exception of the one view of the 9_{47} knot).

Table 1 in the Appendix lists $eqstick_p(K)$ for all prime knots to 10 crossings, as well as the vertex locations for each knot. The numbering is consistent with the Rolfsen table [Rol76], with the exception that the Perko pair has been eliminated. For these knot conformations we find that

$$(3.1) \quad |L_i - 1| < 10^{-2.90} \min\{MD(K)/n, MD(K)^2/4\},$$

so the theorem of [MR01] is satisfied easily, meaning that a true equilateral knot exists for each of these knots. The exponent of -2.90 in Equation 3.1 is for the actual integer data shown in Table 1. This data was rounded to seven significant places in order to reduce the amount of printing space required. If the full 64-bit double precision data is used instead, the exponent is < -11 . The integer data in Table 1 as well as the full precision data is available at the WWW site www.cecm.sfu.ca/~scharein. Also included in Table 2 of the Appendix are the non-equilateral conformations for the seven problem knots.

4. Conclusions

Determining the stick number and equilateral stick number of knots is a difficult problem. If we have found the exact stick numbers and equilateral stick numbers for those in our table, then the results are quite surprising and counterintuitive that $eqstick(K) = stick(K)$ for most K . New theoretical techniques and ideas are needed before we can hope to prove this, however. Unfortunately, most knots (as

¹Not including the unknot and removing one of the Perko pair knots.

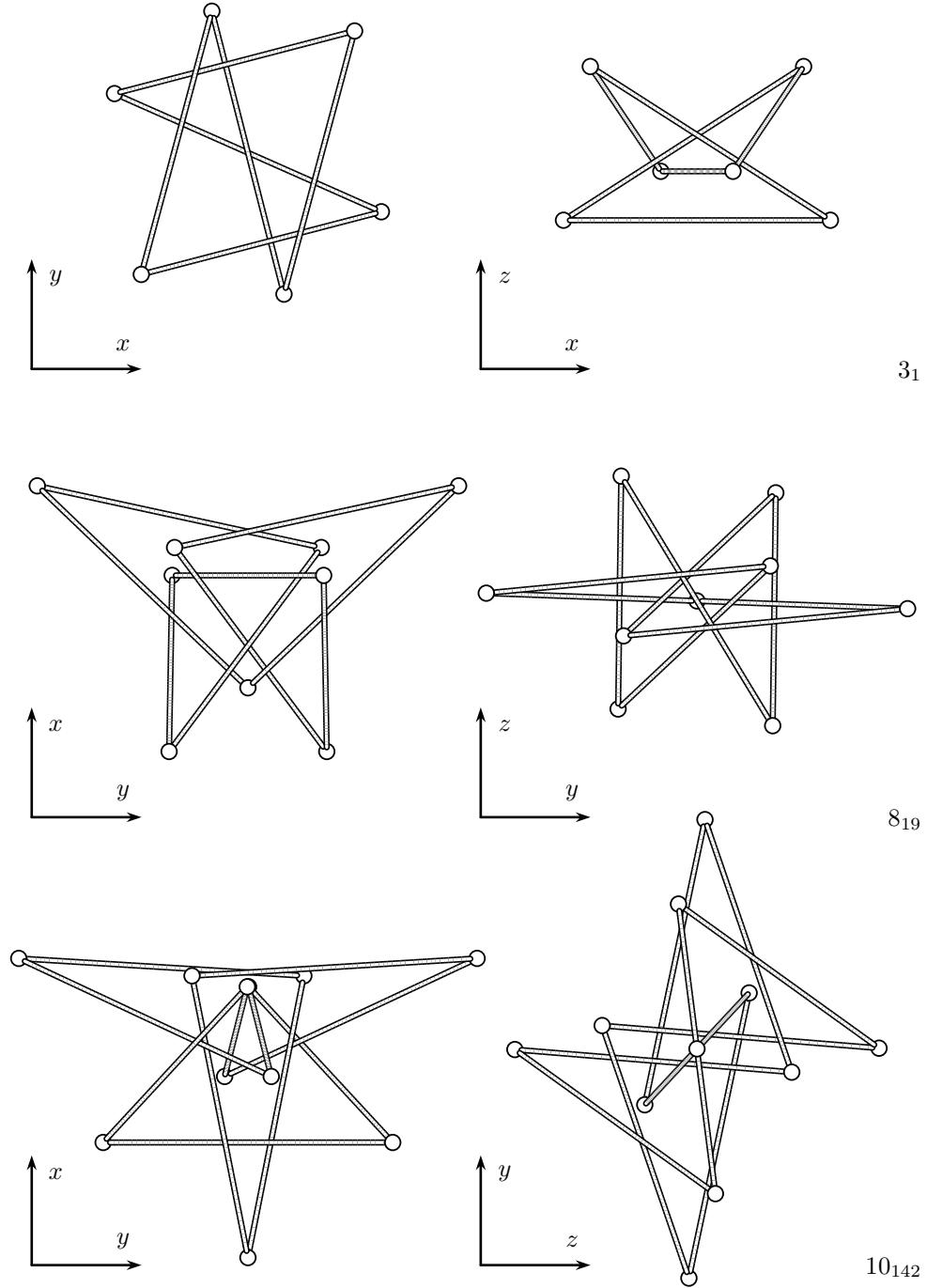


FIGURE 2. Orthographic projections of three equilateral knots along principal axes. All knots have the same edge lengths.

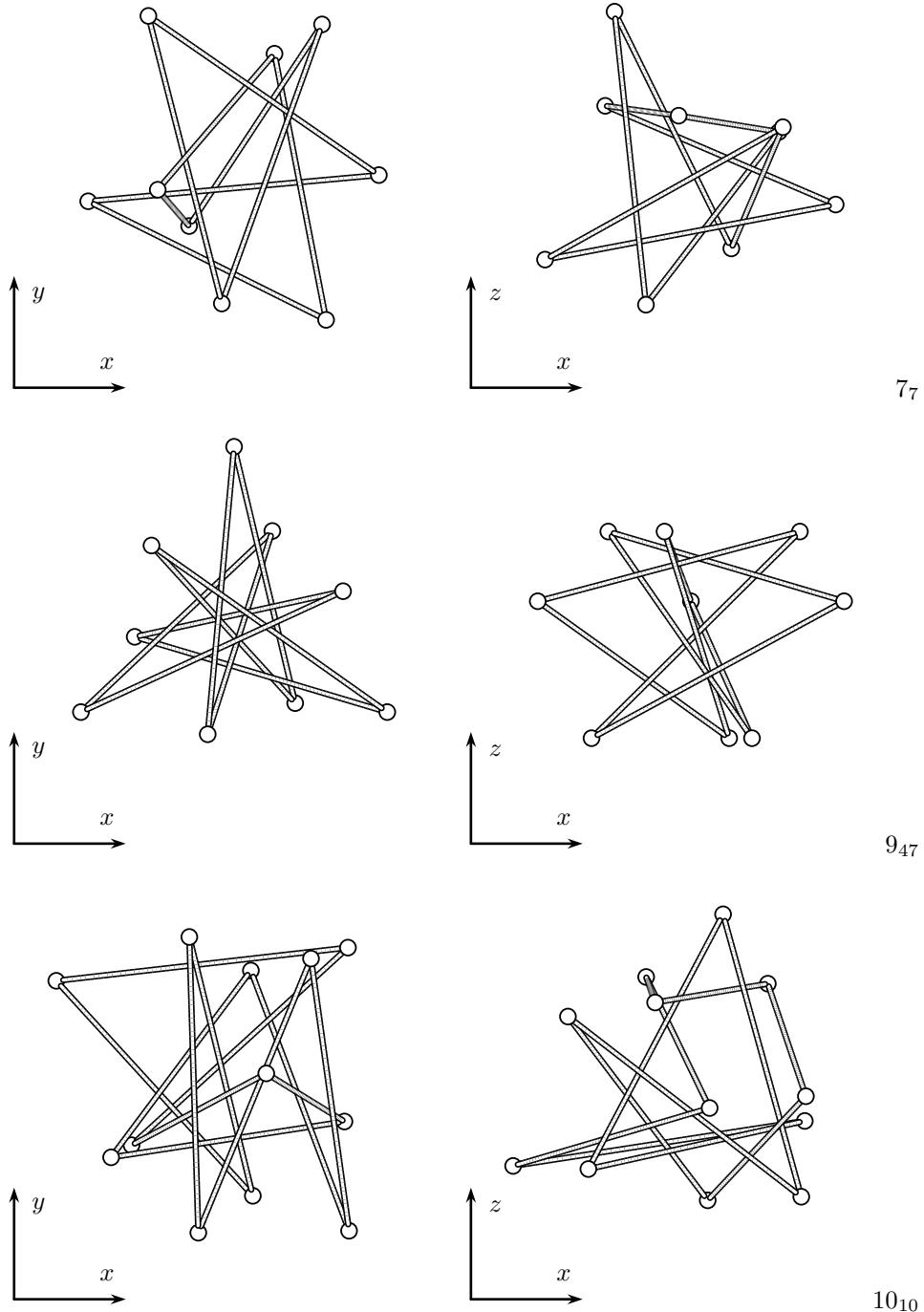


FIGURE 3. Orthographic projections of three more equilateral knots along principal axes. All knots have the same edge lengths.

the crossing number increases) do not appear to have any special characteristics that allow the analysis to be manageable. Successful theoretical studies, e.g. [Jin97, ABGW97, FLS98], have focused on special classes of knots, such as torus knots or connected sums. These knots are exceptional in many ways; the stick number and equilateral stick number of the “average” knot is a more difficult theoretical problem.

The method presented here appears to be quite successful in finding good candidate models for equilateral stick number conformations and identifying candidates for which there may, in fact, be a difference between the stick number and equilateral stick number. The 8-stick version of the 8_{19} knot seems to collapse to 8 nearly collinear line segments as it approaches a nearly equilateral state. However, it seems to never quite reach that state. This provides additional evidence, beyond that in [MR01], that the 8_{19} knot is a very likely candidate for the first knot for which $\text{stick}(K) \neq \text{eqstick}(K)$. We have developed a tool that can be used in exploring the equilateral stick number for large classes of knots. Some other candidates, one of which might prove to be a more attractive target than the 8_{19} , are also provided in this paper.

Given our results, it is tempting to further conjecture that, in the general case, $\text{eqstick}(K) \leq \text{stick}(K) + 1$. We feel that this conclusion would be premature. Our results may suffer from the fact that we are considering only the most simple knots and that more complex structures only appear for knots with greater numbers of crossings. As a consequence, it might be that for most knots $\text{stick}(K)$ is extremely hard to find, and that the results found in [Sch98] are not the actual values (at least for most of the 9 and 10 crossing knots).

In conclusion, while we know that the equilateral stick number is difficult to determine, this project provides explicit equilateral stick number candidates for prime knots through 10 crossings against which one can test methods for determining the equilateral stick number.

5. Acknowledgments

Eric J. Rawdon thanks Kenneth Millett, Richard Randell, Colin Adams, and Gyo Taek Jin for helpful discussions. Robert G. Scharein would like to Dale Rolfsen, Jonathan Simon, and Greg Buck for starting him on the interesting endeavour of drawing and relaxing knots.

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Appendix

Table 1. Equilateral minimal stick representatives and candidates.

The first line of each entry indicates the knot type and the provisional equilateral stick number, $eqstick_p(K)$, for that knot. A \star indicates that the value shown is known from theoretical studies to be the actual equilateral stick number $eqstick(K)$.

3_1	$6\star$	4_1	$7\star$	5_1	$8\star$	5_2	$8\star$
1228524	697186	7716595	6768180	1969142	1648297	3099634	2243356
9718277	2911275	2283329	3513308	9999997	6428238	9093861	3335828
281723	7088584	2283534	1436260	517233	8351703	906139	6665496
8771546	9302722	7716671	4881397	7922832	2763789	6929095	7756620
6274418	3	4012316	9255669	3	6767684	6646111	3
3725183	9999997	4012154	744331	4443496	4369945	8014739	8230135
			8507162	9580692	7729161	1981556	1770541
						3366696	361200
						3770313	9999997
							6258077
6_1	$8\star$	6_2	$8\star$	6_3	$8\star$	7_1	$9\star$
1559033	172965	3967116	9733086	7120748	4806681	1881019	3
5782105	7760718	8008284	233857	6908993	6397009	1964792	7076672
7977219	3	2841839	7898156	1358473	8202444	5233176	1032114
8570648	9373023	4721659	3887337	6408356	1045534	83355	9346969
2733394	2261773	7385483	9766143	9999997	7779707	4634439	8881522
4396684	9999997	1991716	5793157	2287887	3590664	5788911	3
8394961	3197811	7421579	2042194	9356779	8954466	6994424	9999997
1429352	9571267	5809526	4215236		8221010	715945	6876210
							8118614
							9999997
						5000242	1483115
							8516885
7_2	$9\star$	7_3	$9\star$	7_4	$9\star$	7_5	$9\star$
3	5039425	7556384	9137685	7095816	2350471	6992096	3741963
9187451	3634633	7053760	3997514	3624162	8299852	308547	9999997
3780524	8733632	1450134	3633972	9999997	2547858	8954169	5130481
9999997	2026495	3172847	1961992	1806556	4533025	365823	161393
6414962	9774439	6881237	7039880	8499288	6347211	9691453	1368651
5024063	667646	8210520	7619195	3	5209044	804565	9464843
9411451	8158532	4853033	3448813	7325547	6886299	5794139	462505
5134943	225561	2526079	2790538	503570	1700148	8196792	7722990
9200251	6041276	8549866	862315	8497206	4200671	2188010	3
						8984193	8984193
7_6	$9\star$	7_7	$9\star$	8_1	10	8_2	10
4235990	1903136	537695	7914496	9719972	5863375	8348546	9305846
3	9787347	3818669	3536879	3088082	178472	5722393	2172658
534285	295063	3125667	2511291	4281083	9821528	3575660	8276475
6321668	7511710	824500	6348137	8756439	2029646	4194618	2850059
3117895	5063582	9462305	8046462	3	6017646	6790826	7000739
9999997	6339302	2990954	218145	3903708	1665387	6613655	3
642646	6120393	1185071	9781855	4762650	3471293	7492601	7599586
5927636	212653	6480033	2201849	9999997	6723753	1651454	2612214
4563976	9639386	6097553	4616829	538239	6397029	45220988	5428869
						2757504	9999997
						3641713	3641713
						5707451	3987839
8_3	10	8_4	10	8_5	10	8_6	10
2165850	2339212	4805699	1366480	5652125	6312617	6060535	9843098
2098916	9753899	2091356	6750295	250848	1285347	1351250	3437826
4080890	4260737	7406116	6257406	5541894	8714653	8084442	3
7926886	9999997	3582643	1708332	3	3055495	8442612	6286724
8423232	2557755	6174246	8015369	6492979	1832692	5081852	6911291
2469510	7688200	5411719	3084761	51870	6031968	3939569	156774
3712521	3	4109308	677460	8366867	3116763	8648750	6562105
1576768	6587303	7903483	4828812	1582358	7607801	1915719	9999997
5667752	2639769	2423469	7185502	9999997	4957882	1557312	3713251
6340951	8279750	7908644	9322540	1177782	5974883	4918546	3088540
						1390232	1390232
8_7	10	8_8	10	8_9	10	8_{10}	10
5149856	7689242	3231121	4225311	542405	1620477	9154979	5657116
9388734	1310587	4262249	9298881	6462332	7531501	2842745	9999997
2491271	3024678	7296299	3	3481702	6920306	7559362	3934554
4843722	9999997	4944818	5537944	9811973	1921733	845021	3
611266	3581368	5723331	5945548	47265	2381300	289862	6828101
7787003	6449391	5680930	2054738	6726320	8379523	5224417	2814897
3835771	3	4096088	9040642	257377	6126354	8500505	6391171
3218481	6308896	8515973	9999997	9952735	5228283	4859152	7129139
1548027	3573958	1484027	5476200	1753720	8063469	5798884	423674
5932151	1229836	7400370	1965083	9815268	3772740	1653523	6968065
						6444183	6444183

s_{11}	10	s_{12}	10	s_{13}	10	s_{14}	10
8523475	9487575	6298880	9017874	35075	5624147	6843184	965674
7947032	2150850	3903290	8929148	9091098	2649515	6878913	5400053
2326983	7405495	3065185	5490762	2312241	8402119	2834196	7100264
4534199	1900015	8036760	3154176	8985475	2008672	9999997	7251973
4954237	6902292	2146134	4854932	681434	6369655	4599820	1367018
7462404	3	4588711	3028878	9999997	7204973	7779281	6645169
7455068	7703388	3842732	982126	1021627	4741736	3	6486104
1476525	3032176	5370959	8399841	6528191	7091868	5945925	1131826
4630071	9999997	6555561	4149344	3	1597881	5396587	9034326
5504402	3831950	1963240	2841049	6868754	8076807	8344848	2951279
						8284854	8930173
						6940768	2036052
s_{15}	10	s_{16}	9*	s_{17}	9*	s_{18}	9
2538729	9557938	5338930	3084204	9450446	5623054	6508388	9999997
2472900	1123249	9076561	3136449	942336	4160456	986129	986129
4283677	5043182	923439	9735067	5972823	6544214	920930	3480597
2675056	9999997	8536619	1776038	6595297	3258451	4079402	4079402
406013	1561979	5575288	3624312	3	8513529	9666753	1040636
5553110	9027621	3875352	4823979	4869409	1486471	4756402	4756402
7149207	3	4911105	2936020	9999997	8167979	902602	1901232
8138088	8983747	6763844	264933	1979544	6416552	8482403	9898643
1637150	5902265	987992	8758344	2956624	5217745	6498285	6498285
9593987	3619526	5061816	8758344	2956624	5217745	2018494	5448868
			8758344	2956624	5217745	1881086	1881086
s_{19}	9	s_{20}	8*	s_{21}	9*	s_{22}	9*
8151949	9999997	4815870	2734522	3	4562419	4283525	9926691
3359612	4999999	5000000	80888989	7520455	9267067	9717289	79717289
8151950	3	5184131	1124029	7168917	1603714	5892255	2814340
6688324	6741014	5829836	9157345	2604779	6293672	1313374	1313374
1848051	3128619	2435322	842655	8651850	7582114	9999997	8018751
6026747	3202117	7961032	7153195	4110151	732933	8630609	8630609
6026748	6797884	2038968	1185220	1519965	8797389	8536699	6467803
1848050	6871378	7564677	5446618	9999997	4639170	3057290	3057290
6688326	3258985	4170164				760983	8910620
						598083	6880589
s_2	11	s_3	11	s_4	10	s_5	10
4347321	2656085	8899706	5369581	1441253	2163258	4296552	8091312
2535068	3	2144062	5326374	9784940	1946516	7135661	1440819
3379955	7208148	3962460	1179963	2885548	4153690	6469869	6469869
9502540	2915825	3702331	3721353	9999997	7702197	9026512	9038501
7553027	9999997	5113594	936897	2156997	7069647	4085751	4085751
4905098	3667762	2135502	8534365	2543410	3635244	4764770	1680341
497460	6918421	7232923	1195327	6339914	2455821	7724217	7724217
4656287	1518118	4147695	3052895	3	7556839	6082242	2280857
4977170	8343668	1100294	1375886	7870537	5341424	7642383	7642383
8644000	3747441	5727043	4541173	242773	4131406	5909071	3295910
2218761	5463001	2299084	9063103	6059595	8053484	6022480	6818211
						6506219	1284113
s_6	11	s_7	10	s_8	10	s_9	10
453533	3752063	6336249	8621576	6406690	6420376	5510074	3
6008961	4803335	781564	5306877	3	5624193	4595999	4595999
8569244	7026152	7945816	2077432	6429689	6571083	5410942	8192784
5370725	3	6149935	6971836	9999997	2575524	2275783	2275783
3646267	7100740	9218436	4467779	3201772	3000518	682849	8562299
1128476	1756658	3932387	8011270	7733775	7424476	5246458	1558454
2415741	9566193	3512173	5800695	2003082	3595337	6433326	6433326
3914386	4080582	9033459	4511325	9101534	4344377	6353573	9999997
9546467	2859084	3591944	7255009	2610586	6078324	6309589	6605191
6482506	9999997	5154627	1378424	6857078	6394289	979201	3402177
8204866	2650546	7571553				5965222	6921073
s_{10}	10	s_{11}	11	s_{12}	10	s_{13}	10
7161616	9999997	3086723	2136448	7256860	7298659	511751	6703901
2790247	3	5515420	5306877	3	5624193	1460174	1601740
8441936	7056521	5110766	1801447	6541581	8665904	5023921	118023
2272056	1342724	1766384	2843734	110607	2891649	901769	1040636
9034196	7335248	2279120	2163262	8619686	4599967	1001769	1384568
4482253	797574	6573118	8134356	2527489	2863015	1942058	1942058
3255004	8777440	2484672	9685445	9209819	8222718	1028598	1201320
8781757	2560883	6049670	4697466	7351653	1334096	1210566	4004397
4113808	9999997	8233616	314555	5222410	8548126	5355485	5355485
			7807784	1751241	5793437	1074860	1074860
s_{15}	10	s_{16}	11	s_{17}	10	s_{18}	9
98	10	s_{19}	9*	s_{20}	9*	s_{21}	9*
5181466	6703901	1601740	5510074	3	4595999	283797	2618330
5410942	8192784	118023	5410942	8192784	2275783	2275783	2275783
5344405	9999997	2532110	5344405	9999997	2532110	4956956	8333264
8707607	4627639	7467890	8707607	4627639	7467890	1001769	1384568
1028598	6048361	5583842	1028598	6048361	5583842	9999997	1384568
6309589	3	5836361	6309589	3	5836361	3167840	1365658
8971402	7534552	6661349	8971402	7534552	6661349	7483141	8459383
3430092	1787238	5768293	3430092	1787238	5768293	4869945	4869945
6970304	8867553	4400331	6970304	8867553	4400331	4582112	9979201
5355485	1074860	3304169	5355485	1074860	3304169	5753847	3494357

9 ₁₄	10	9 ₁₅	11	9 ₁₆	10	9 ₁₇	10
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2253133 9837060 2847156	2383298 7810091 2550543	4457977 864981 6363558	8146844 7344745 1956088	8146844 7344745 1956088	8146844 7344745 1956088		
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8823178 4788995 6722883	751522 3671490 6057896	6965892 103058 738565	1591131 8109770 2875029	1591131 8109770 2875029	1591131 8109770 2875029	7420031 6895966 6738365	7420031 6895966 6738365
3487231 439818 2942183	6354010 9999997 3357437	7834682 4436029 9261435	6578483 1495524 2210477	6578483 1495524 2210477	6578483 1495524 2210477	5601740 5772785 7789523	5601740 5772785 7789523
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6646816 2261191 3135591	2254642 8997784 5061922	8649507 1815175 7127366	5154647 559140 6824729	5154647 559140 6824729	5154647 559140 6824729	1618507 6712754 6765571	1618507 6712754 6765571
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9 ₂₆	10	9 ₂₇	11	9 ₂₈	10	9 ₂₉	10
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9921992 4995861 4381371	1199743 1338337 1481448	919896 5819783 7116049	5590202 3 3852837	5590202 3 3852837	5590202 3 3852837	1782238 8682864 5110561	1782238 8682864 5110561
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9_{38}	10	9_{39}	10	9_{40}	9^*	9_{41}	9^*																																																																																
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5199139 3 7019501	8023885 7382872 1872845	8419054 6971420 7803888	9483935 4204514 4622973	5547919 5927623 3634828	3752337 3 3600843	3427528 9999997 3428506	221027 794689 7619622
221027 794689 7619622	4101024 8131629 6682065	3825401 3 3755797	4974924 1901963 1499299	6779917 6477853 8051597	1315781 1294160 2074430	1992852 9999997 6884655	2391824 2931262 3411684
6779917 6477853 8051597	7816899 5169250 6370709	8323081 8045679 4778678	8269964 7230103 7195619	2822026 9999997 5203391	1701072 8344872 1055548	8064135 3024067 7636499	2822026 2726207 4990359
2822026 9999997 5203391	8684219 4001928 3903943	932081 6019932 536099	6274759 3 3266339	3461773 2726207 4990359	2483632 7449370 8944452	2474943 9666951 9052723	8430632 7029436 4249779
3461773 2726207 4990359	8083501 2151554 4905458	9463687 4025736 6728430	7911147 5377618 1058417	1569349 6206965 5971285	1083501 2151554 4905458	6005014 2945173 8941583	
1569349 6206965 5971285	8262747 3 4824522	1098169 6651071 6460424					
10 ₁₄₁	10	10 ₁₄₂	11	10 ₁₄₃	11	10 ₁₄₄	10
7141979 3 5079786	7883258 6219992 6138153	8832942 5284225 3249510	7024944 8395224 6790552	1994960 5684202 1400248	1737121 5000194 5000173	3 4772070 2354702	1994960 2 5079786
1994960 2 5079786	7883107 3780008 3861795	5245209 1601285 9999997	8106312 888948 1187263	6518235 5903412 8599752	8262879 9999997 5175342	9483935 4204514 4622973	5945239 683929 1908743
6518235 5903412 8599752	5687253 4491730 7062338	3681168 8340786 5086969	9999997 9782882 4462593	1273602 4882191 7643839	1503865 2484954 3638913	7041900 1411752 6286775	9144689 4589517 4434282
1273602 4882191 7643839	7643302 4985372 1027701	5452268 1784039 3	1918529 8063770 2872757	855311 2998787 3387038	4247679 1841416 5402994	3320047 1362563 8812737	5287699 9999997 5304829
855311 2998787 3387038	4247796 8158741 5972011	8901831 4567443 7235895	8366205 9041681 4028738	6131063 1776303 7304961	7643603 5014714 8972299	5718734 217118 3107320	5867119 5508364 2931903
6131063 1776303 7304961	5867119 5508364 2931903	1098169 6651071 6460424	5171107 5037447 2710924	8262747 3 4824522	1098169 6651071 6460424	5718734 217118 3107320	
8262747 3 4824522	1098169 6651071 6460424	1098169 6651071 6460424					
10 ₁₄₅	10	10 ₁₄₆	10	10 ₁₄₇	11	10 ₁₄₈	11
248824 1506400 8635906	3754161 9427313 5027209	8832942 5284225 3249510	542933 3 4676755	9751176 4927030 5637355	4839259 3 7441652	4975296 7291843 3458919	248824 1506400 8635906
9751176 4927030 5637355	6467330 6804780 591431	6880441 6004103 4830100	4538051 400696 8618454	275197 9422994 4647992	3906748 9999997 5461220	601356 6330851 3756810	7086879 1656007 6712358
275197 9422994 4647992	9304044 5664172 9893753	4330210 5017621 5913926	7778227 2100169 5968990	5291789 9714960 1692405	4331439 3 6062526	5934330 9999997 3054649	7086879 1656007 6712358
5291789 9714960 1692405	1456375 1191231 6113803	5017621 5913926 7778227	2818708 6848462 4429669	3464826 3 5656870	9724554 5460432 7705591	275446 8448979 9368839	8311422 9351099 5889734
3464826 3 5656870	9704069 6403019 5280765	4334216 3841386 3637091	2906784 3531190 2796830	2495525 1649628 1664879	7307431 9999997 6687988	5116123 3724145 631161	5487021 9999997 7348979
2495525 1649628 1664879	6267409 857912 3389095	4983604 3028221 106247	3985812 7755009 6762870	7870020 1663980 1364094	5272303 3 2486069	3432356 7263942 8308052	1435518 8541704 5539605
7870020 1663980 1364094	5286376 3395558 5644163	1250956 1475800 4635679	4420300 6639870 5165847	1435518 8541704 5539605	1015107 5037447 2710924		
1435518 8541704 5539605	1015107 5037447 2710924	1015107 5037447 2710924					

10_{153}	11	10_{154}	11	10_{155}	10	10_{156}	10
9521228	3970116	3071016	6027095	317461	8498130	3282009	6660103
478772	1335061	3394147	5380202	6047039	2424943	3907720	3817807
8917003	4564671	6073667	1184857	3	6420260	8278671	1218943
2257511	7851836	271971	4720309	7586238	6137884	5131484	8536081
6619192	1077285	5160238	4582422	613542	1501870	6228192	209896
6742841	9999997	8190728	1203504	6141574	6507975	9999997	7944347
4652742	3543746	1651442	8815143	4232863	3781581	5558334	1192453
791988	6489468	9728029	2092409	9178707	3093394	6289921	9790104
5807012	3	5085796	6508312	2147468	4184997	3	4170993
3099166	8581089	2284637	6947492	9999997	7061633	1818562	690481
1682313	575904	7051553	3441739	4554082	1752976	8558224	3377423
10_{157}	10	10_{158}	10	10_{159}	10	10_{160}	10
9088304	5945784	6801123	5475661	8457652	3686775	913662	3637285
911696	6231887	8722046	2955202	1284356	8418854	9086338	5200983
3649600	3435741	1277954	7897422	3	1061792	3795382	3146505
8976111	4078586	7748393	7312190	7059086	6541602	2262164	9999997
4583810	9999997	3714374	473333	1886745	3957333	6708799	3383682
7364116	2136005	4742120	9143953	4047585	4551149	6413356	9282264
4727853	9155516	8537555	2577960	9999997	5838781	6555660	1100775
5085855	763739	8257098	3728446	1123221	5554718	4585657	8098016
6831355	7398006	3402361	6488142	9571521	4453914	4614041	3
3336217	3	5321291	9526665	2439905	8938208	7924813	7602256
10_{161}	10	10_{162}	10	10_{163}	10	10_{164}	11
2312614	9600936	7732892	3326645	2910636	1583650	7268529	6948556
3161443	2023903	2249503	7473833	4115481	6870973	2781943	940009
7791756	9981623	4102713	5476380	9999997	4044446	9865974	3166848
6613436	728349	3012777	1659607	4459856	5204485	3330136	8238035
6113688	9999997	4422129	8340393	5863302	5140860	2662508	3
5977723	1561299	8541519	4887942	3	4585056	5471771	3841433
5683474	8845409	2620824	3263166	6138754	2078574	5876429	4262154
8018931	3	4743066	1806293	4061081	8416350	1888703	9999997
541831	4637240	1458481	6534810	2879745	3635955	6565554	3435334
9458169	7536620	1998859	3254674	8626440	5316077	134026	2720553
10_{165}	10						
2812261	5821472	2562273					
8214541	3871331	7623489					
3897440	96016	2552669					
2106413	7102078	5064820					
5405838	221137	4456523					
7645550	7375742	2907686					
1785459	2863233	4882572					
3796699	9999997	6786540					
7598074	5029607	2376511					
4492663	3	7240983					

Table 2. Minimal stick representatives and candidates. This table contains conformations for the seven knots that we found to have stick numbers lower than their equilateral stick numbers. The first line of each entry indicates the knot type and the provisional stick number, $\text{stick}_p(K)$, for that knot. A \star indicates that the value shown is known from theoretical studies to be the actual stick number $\text{stick}(K)$.

8_{19}	not eq	$8_8 \star$	9_{29}	not eq	9	10_{16}	not eq	11_{11}
6029799	3	8433120	4772110	1775158	8720545	7217186	3	4760156
6060406	9999997	1573848	5803984	7854373	956331	9025310	1727814	3970782
3607	3960221	8429939	1226643	3621876	6959139	974690	1907658	2188908
9996393	3960220	1567031	8952420	1413283	1287424	8010936	8863748	4470469
3959880	9985379	8454178	1351643	9999997	5035078	3951251	6021718	7224842
3958382	25418	1544761	5921328	4775625	4913828	6597499	1071877	1807033
9987385	6027133	8455239	1047580	3	3885235	8820466	1591721	5625625
23091	6063673	1554457	8428201	7844842	9043669	3061251	5520937	3413751
			1828674	6341874	2009924	5138125	5382031	2402189

10_{79}	not eq	11_{11}
4490625	9999997	7408827
1911564	3287501	2527736
2955939	5009687	7402420
5016562	4921563	6412109
4010626	6243749	3099298
1119846	3320001	7472264
8880154	8023123	4736485
1133596	9962810	6956014
5784062	4663750	5085078
1258440	7042968	3349142
7449686	9999997	2811251
		5312656
		3
		7140702

10_{107}	not eq	10
7611873	8435154	3388751
5616406	3920157	8202186
5850312	3815938	1797814
7874686	5414531	7013280
2433127	4385938	4708594
3589063	6340468	5090000
7877030	3	5785625
6212968	9999997	6409062
7032030	4094219	3425626
2122970	4182657	5488906
10_{119}	not eq	10
4726094	5242344	2821251
8290779	4709375	6304374
6274530	2419689	7150467
4679844	6726561	2107970
3940001	6962811	7892030
9554060	4217188	4387188
445940	5513281	5927187
9176091	9999997	6378749
5626093	3	6290780
4684531	9091404	6792030
10_{147}	not eq	10
7404452	3	4684297
4363047	8777810	4535860
4258360	4076719	6405390
6131484	3652032	4211797
6343359	4652344	4856641
2595548	1942189	5224140
6445546	9999997	5205547
4393516	3740313	3161954
5239140	3817344	6838046
3522423	4758906	4168829

DEPARTMENT OF MATHEMATICS/COMPUTER SCIENCE, DUQUESNE UNIVERSITY, PITTSBURGH,
PA 15282, USA

E-mail address: rawdon@mathcs.duq.edu

CENTRE FOR EXPERIMENTAL AND CONSTRUCTIVE MATHEMATICS, SIMON FRASER UNIVERSITY,
BURNABY, BC, CANADA

E-mail address: scharein@cecm.sfu.ca