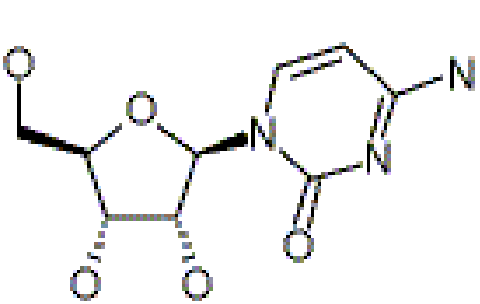


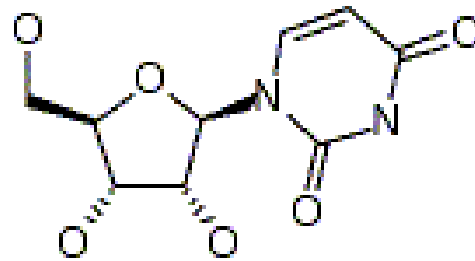
RNA Secondary Structure Prediction

Joshua Anderson
Andrew Ash
Dr. Christine Heitsch
Dr. David A. Bader
Dr. Steve Harvey

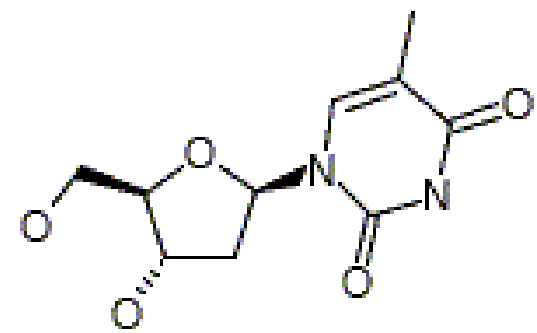




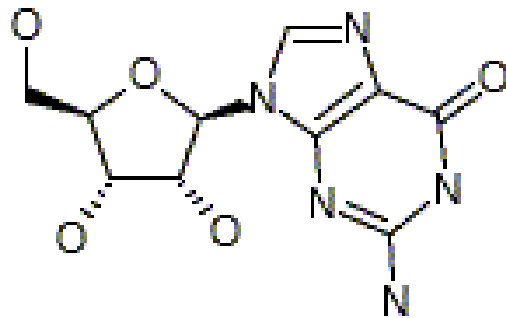
Cytidine



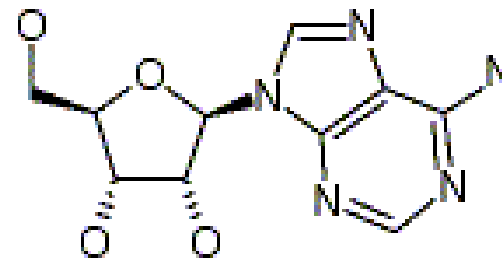
Uracil



Deoxythymidine



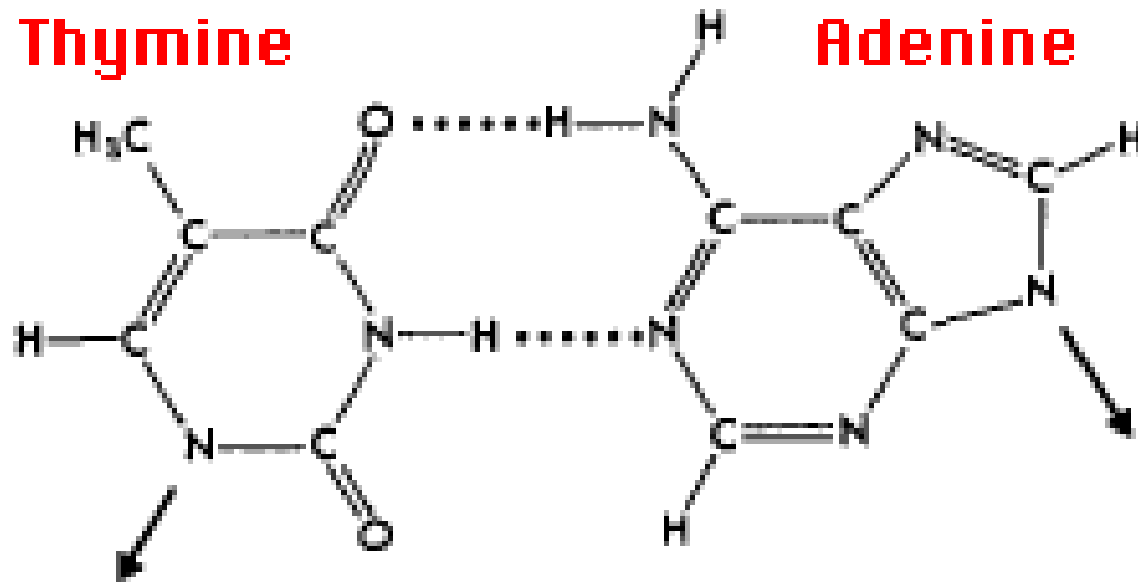
Guanosine



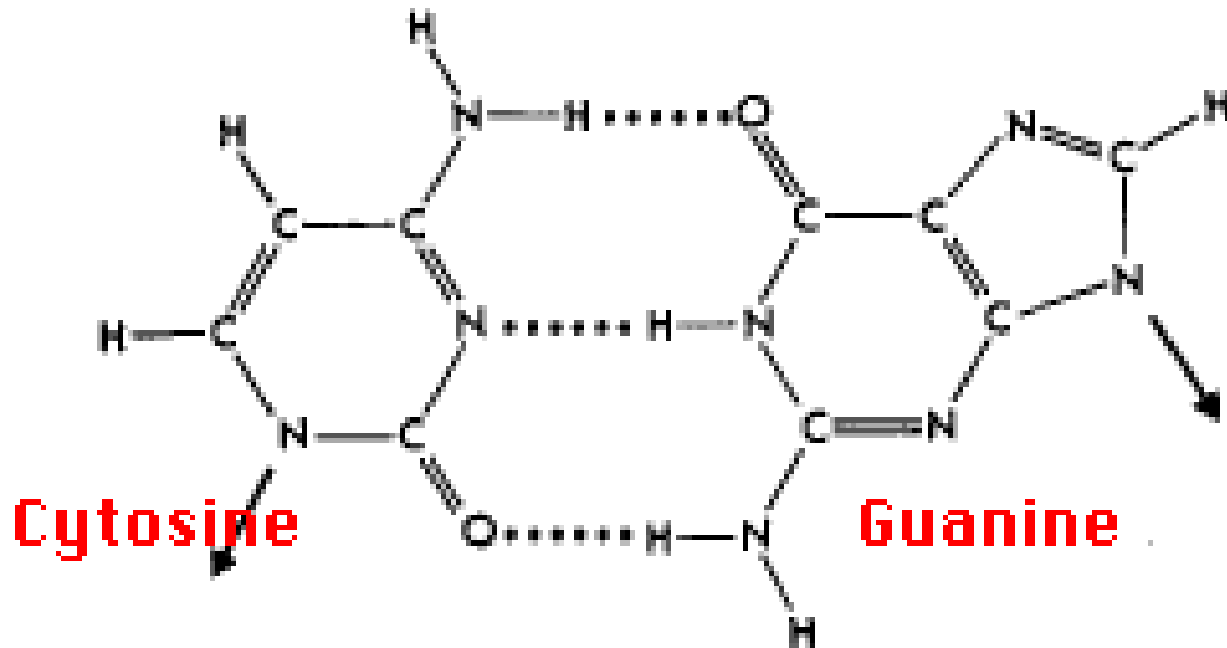
Adenosine



Thymine

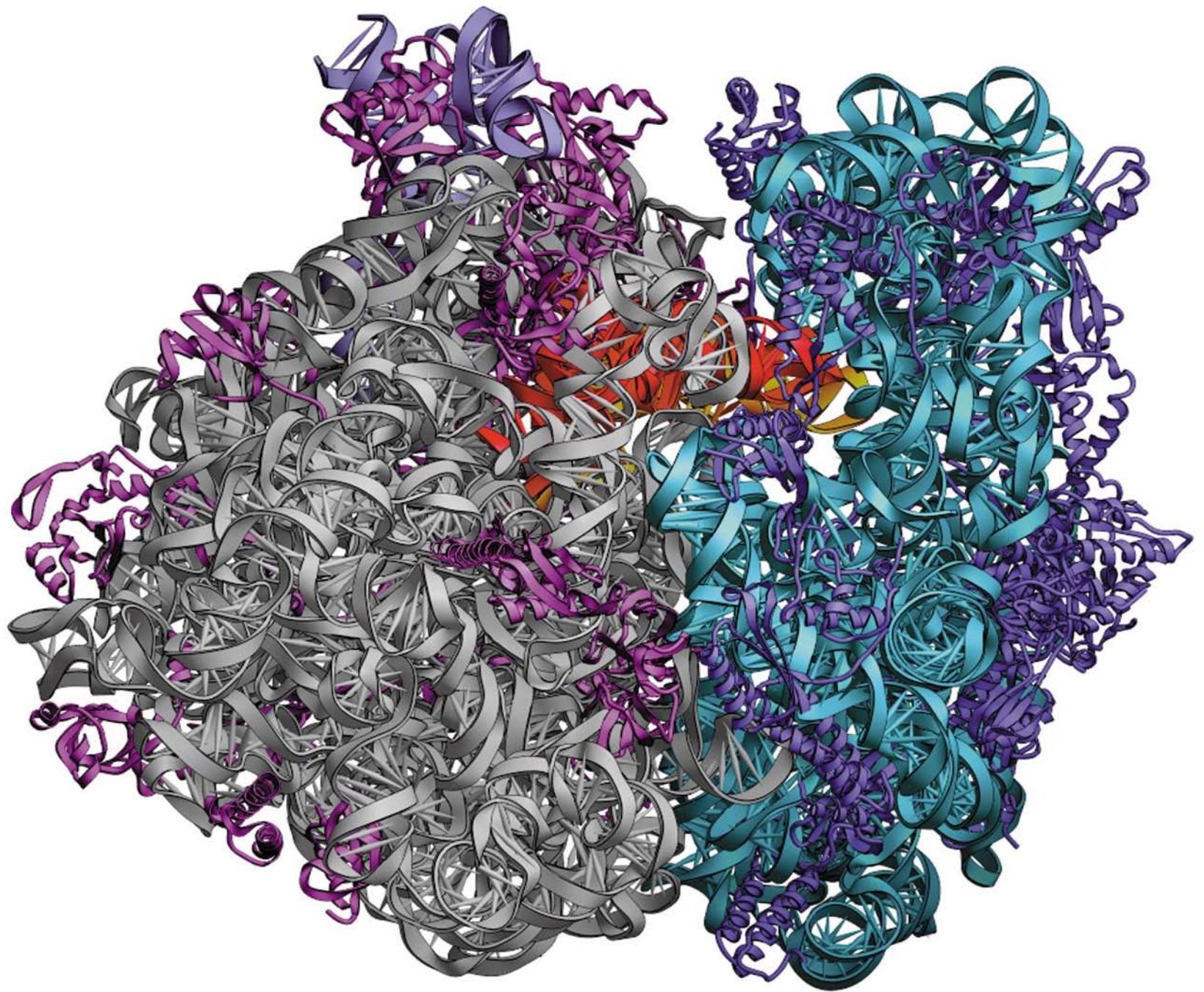


Adenine



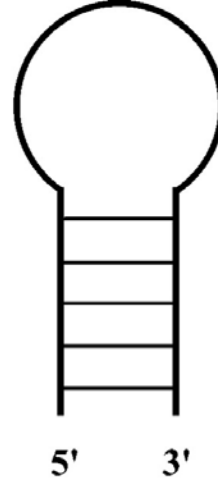
Cytosine

Guanine

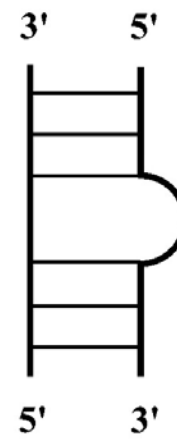




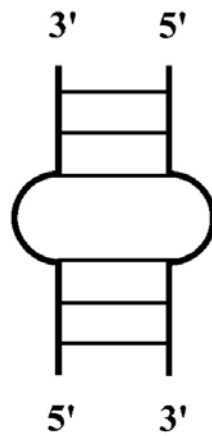
Helix



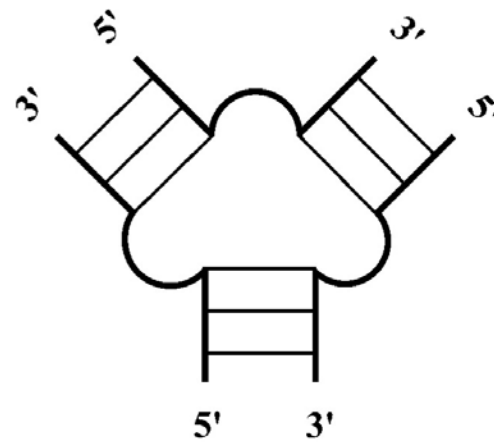
Hairpin loop



Bulge loop



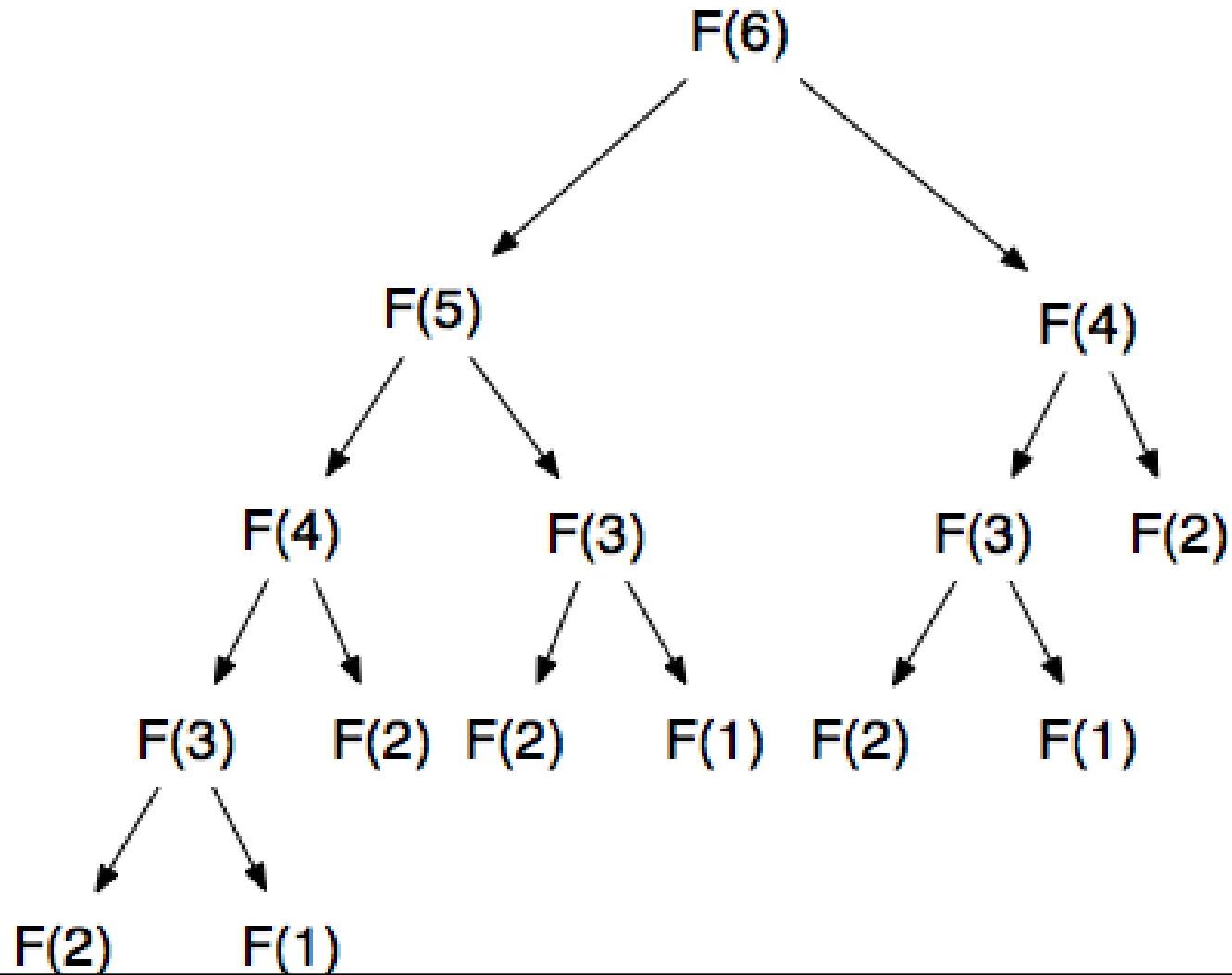
Interior loop



Multi-branched loop



$$F(n) = F(n-1) + F(n-2)$$



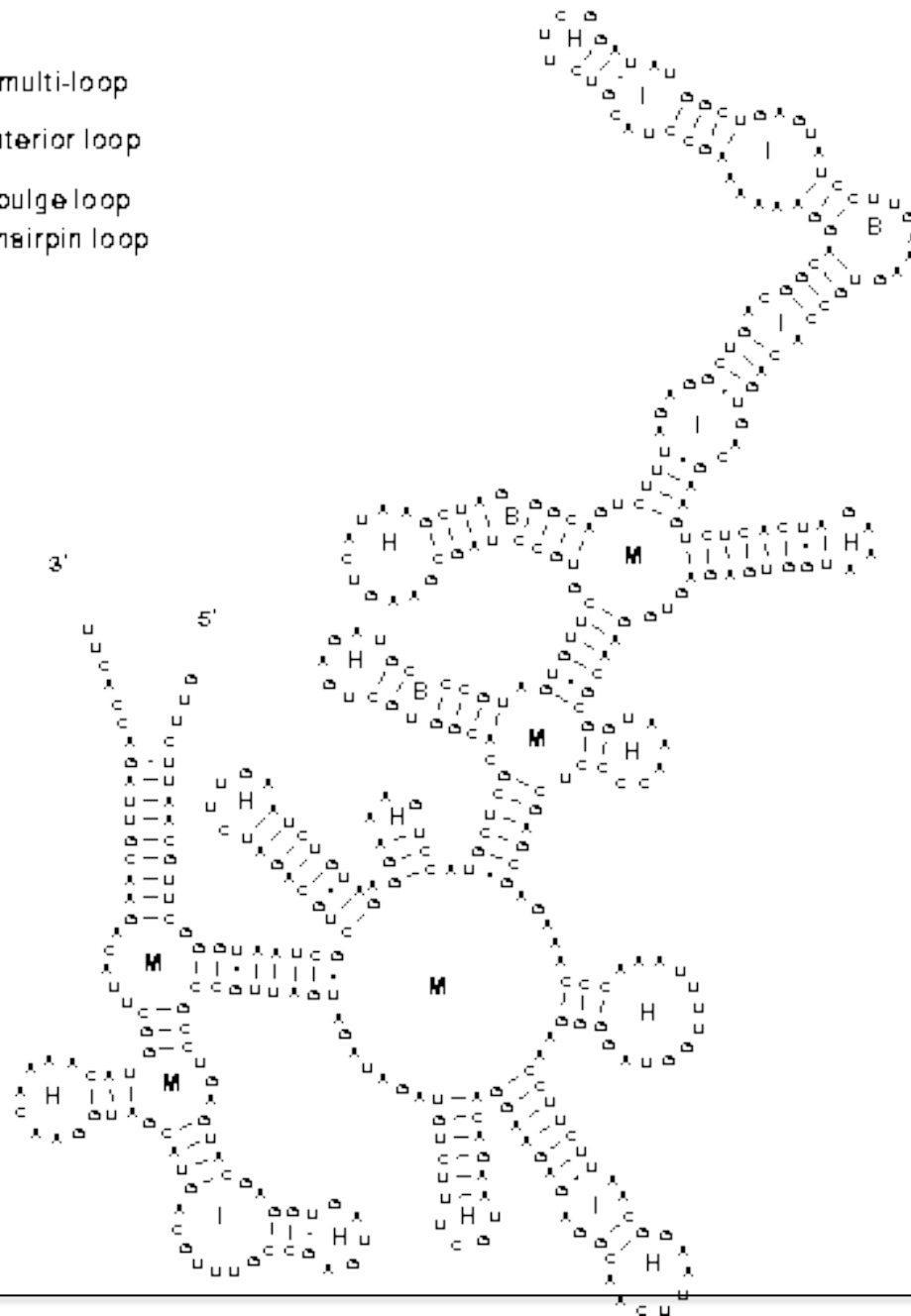
Bacillus subtilis RNase P RNA

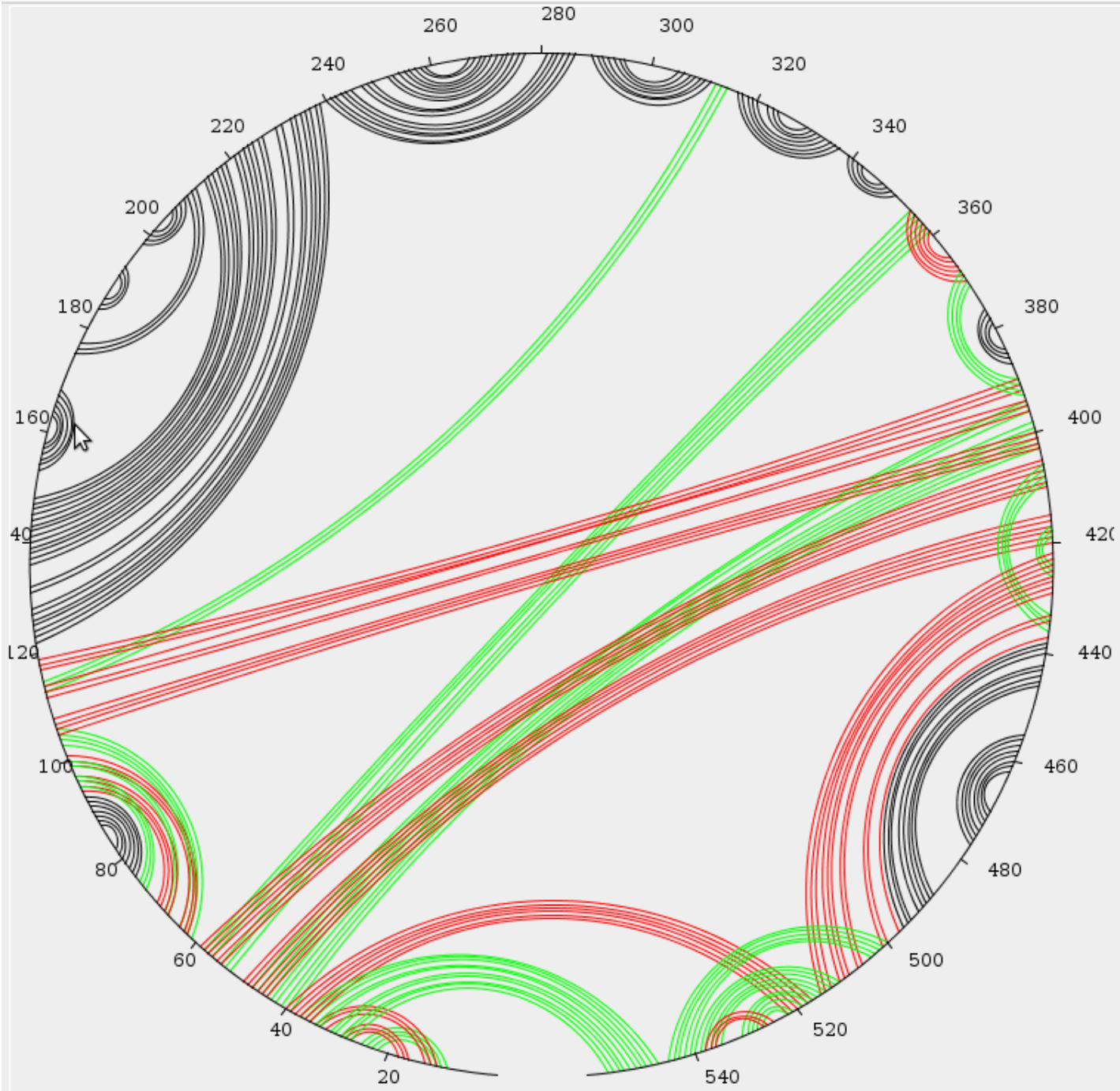
M - multi-loop

I - interior loop

B - bulge loop

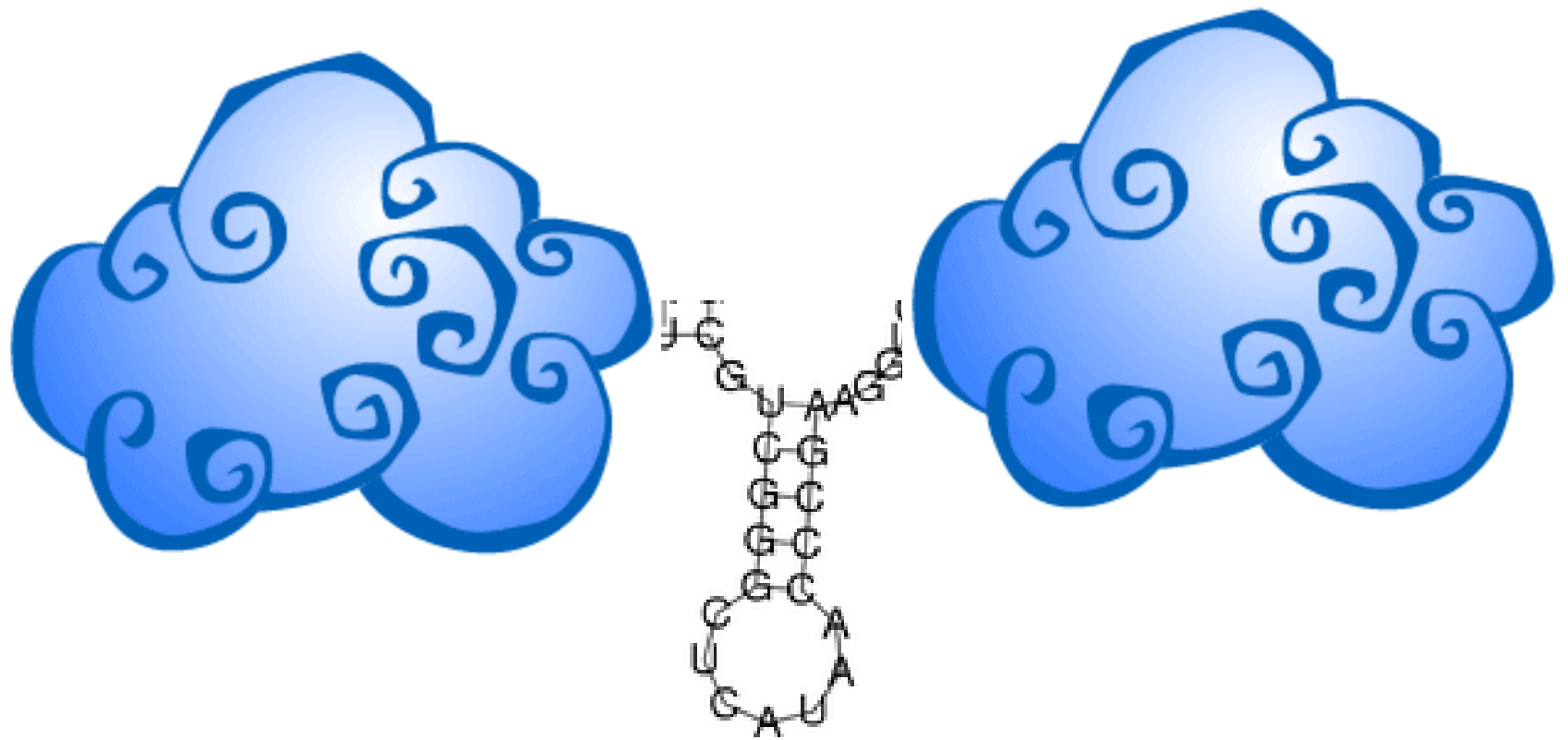
H - hairpin loop





$$e^{-G/RT}$$





PhD Students Conference on Tropical Geometry 2010

16th and 17th of July 2010

Goethe-Uni Frankfurt am Main

Organizers: Mathias Häbich, Till Wagner, Timo de Wolff

Speakers:

- Sarah B. Brodsky
- Arne Buchholz
- María Angélica Cueto
- Bart Frenk

$$x \oplus y = \min\{x, y\},$$

$$x \otimes y = x + y.$$



1-72 pair	Pr: 0.992978	39-66 pair	Pr: 0.805470
2-71 pair	Pr: 0.997003	40-65 pair	Pr: 0.884705
3-70 pair	Pr: 0.996535	41-64 pair	Pr: 0.903293
4-69 pair	Pr: 0.992902	42-63 pair	Pr: 0.904256
5-68 pair	Pr: 0.977568	43 unpaired	Pr: 0.933094
6 unpaired	Pr: 0.137147	44 unpaired	Pr: 0.992337
7 unpaired	Pr: 0.817417	45-60 pair	Pr: 0.889595
8 unpaired	Pr: 0.895710	46-59 pair	Pr: 0.890811
9 unpaired	Pr: 0.990414	47-58 pair	Pr: 0.903937
10 unpaired	Pr: 0.955633	48-57 pair	Pr: 0.895861
11 unpaired	Pr: 0.885004	49 unpaired	Pr: 0.985546
12-35 pair	Pr: 0.845787	50 unpaired	Pr: 0.980539
13-34 pair	Pr: 0.914232	51 unpaired	Pr: 0.888542
14-33 pair	Pr: 0.914352	52 unpaired	Pr: 0.919133
15-32 pair	Pr: 0.914830	53 unpaired	Pr: 0.915944
16-31 pair	Pr: 0.882403	54 unpaired	Pr: 0.915269
17-30 pair	Pr: 0.503901	55 unpaired	Pr: 0.914173
18 unpaired	Pr: 0.841317	56 unpaired	Pr: 0.886413
19-28 pair	Pr: 0.834599	57-48 pair	Pr: 0.895861
20-27 pair	Pr: 0.798998	58-47 pair	Pr: 0.903937
21 unpaired	Pr: 0.989525	59-46 pair	Pr: 0.890811
22 unpaired	Pr: 0.915108	60-45 pair	Pr: 0.889595
23 unpaired	Pr: 0.916783	61 unpaired	Pr: 0.847909
24 unpaired	Pr: 0.919064	62 unpaired	Pr: 0.923353
25 unpaired	Pr: 0.837689	63-42 pair	Pr: 0.904256
26 unpaired	Pr: 0.920295	64-41 pair	Pr: 0.903293
27-20 pair	Pr: 0.798998	65-40 pair	Pr: 0.884705
28-19 pair	Pr: 0.834599	66-39 pair	Pr: 0.805470
29 unpaired	Pr: 0.923017	67 unpaired	Pr: 0.139229
30-17 pair	Pr: 0.503901	68-5 pair	Pr: 0.977568
31-16 pair	Pr: 0.882403	69-4 pair	Pr: 0.992902
32-15 pair	Pr: 0.914830	70-3 pair	Pr: 0.996535
33-14 pair	Pr: 0.914352	71-2 pair	Pr: 0.997003
34-13 pair	Pr: 0.914232	72-1 pair	Pr: 0.992978
35-12 pair	Pr: 0.845787	73 unpaired	Pr: 0.999324
36 unpaired	Pr: 0.863466	74 unpaired	Pr: 0.999303
37 unpaired	Pr: 0.871406	75 unpaired	Pr: 0.999368
38 unpaired	Pr: 0.964530	76 unpaired	Pr: 0.999936



**GREEN
ARROW**



That's all Folks!