

Image by MIT OpenCourseWare.

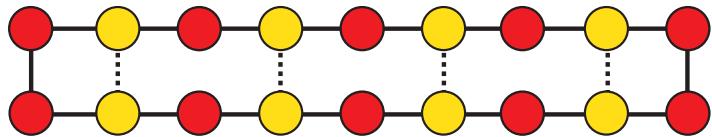
[Istrail,  
Schwartz,  
King 1999]

## Counterclockwise Chain

	Length 1 to next even-parity H node	Length >1 to next even-parity H node
Counterclockwise Chain	<p>Length 1 to next odd-parity H node</p>	
Counterclockwise Chain	<p>Length &gt;1 to next odd-parity H node</p>	

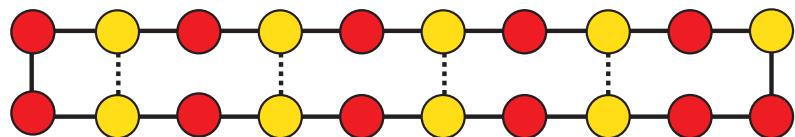
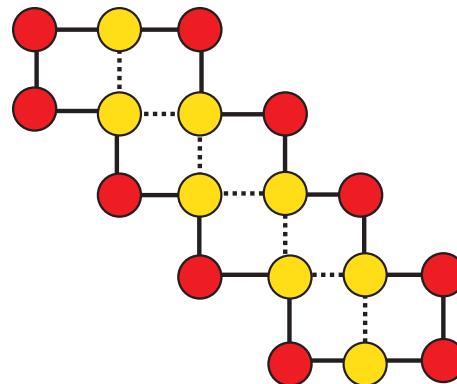
Image by MIT OpenCourseWare.  
See also <http://portal.acm.org/citation.cfm?id=545495>.

[Newman 2002]



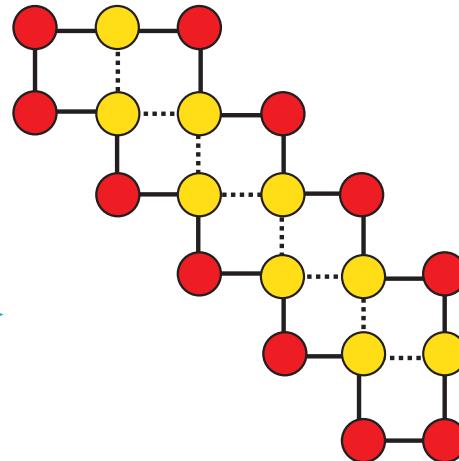
**Length 18**

**Unique  
optimal  
folding**



**Length 20**

**Unique  
optimal  
folding**



Aichholzer,  
Bremner,  
Demaine,  
Meijer,  
Sacristán,  
Soss 2003

Image by MIT OpenCourseWare.  
See also [http://erikdemaine.org/papers/RedBlue\\_CGTA2003/](http://erikdemaine.org/papers/RedBlue_CGTA2003/).

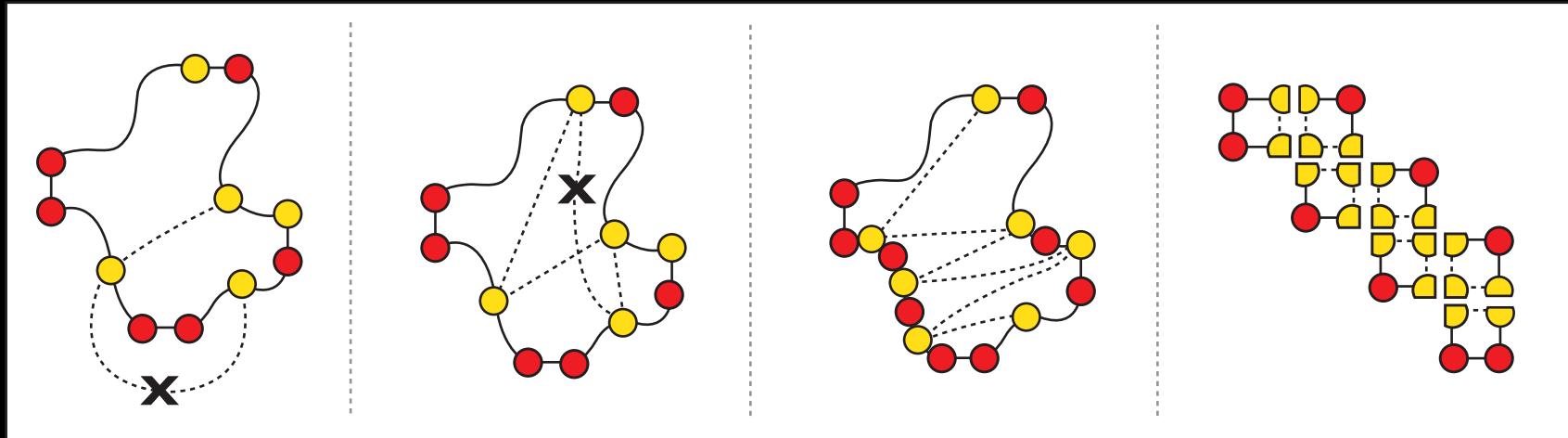
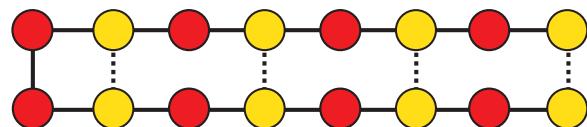


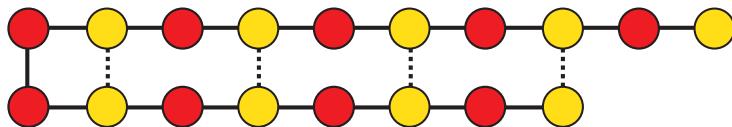
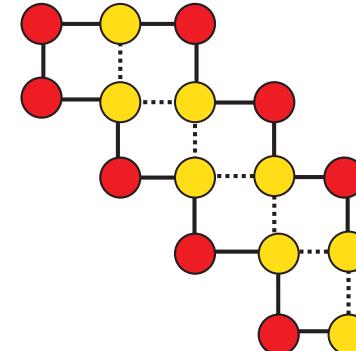
Image by MIT OpenCourseWare.  
See also [http://erikdemaine.org/papers/RedBlue\\_CGTA2003/](http://erikdemaine.org/papers/RedBlue_CGTA2003/).

Aichholzer,  
Bremner,  
Demaine,  
Meijer,  
Sacristán,  
Soss 2003



**Length 16**

**Unique  
optimal  
folding**



**Length 18**

**Two  
optimal  
foldings**

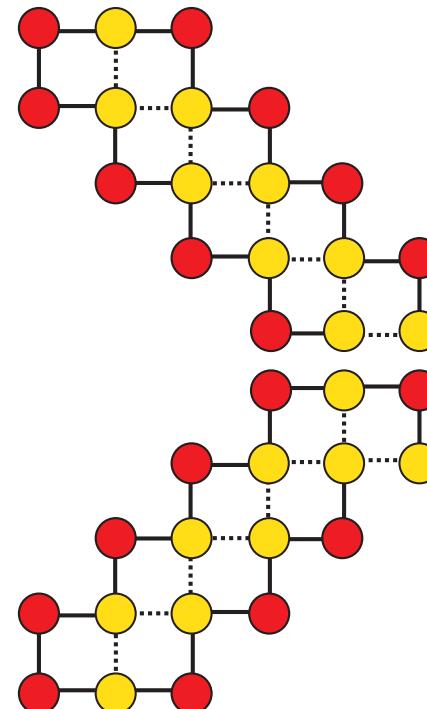
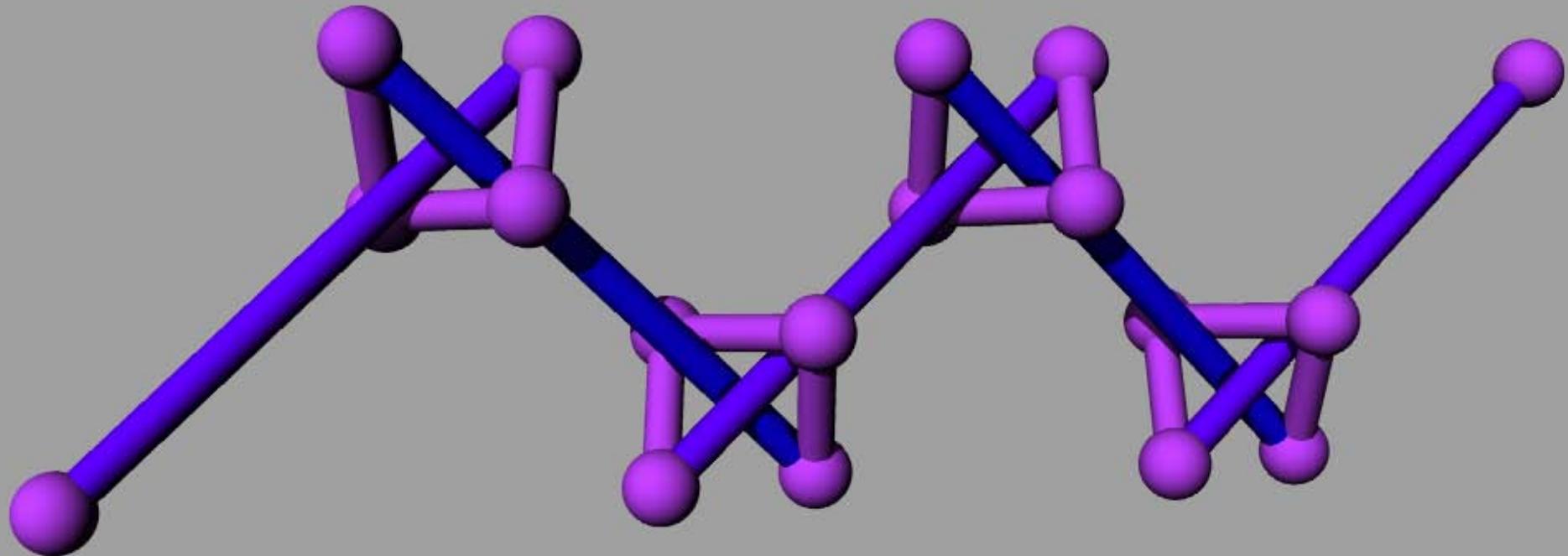


Image by MIT OpenCourseWare.  
See also [http://erikdemaine.org/papers/RedBlue\\_CGTA2003/](http://erikdemaine.org/papers/RedBlue_CGTA2003/).

Aichholzer,  
Bremner,  
Demaine,  
Meijer,  
Sacristán,  
Soss 2003



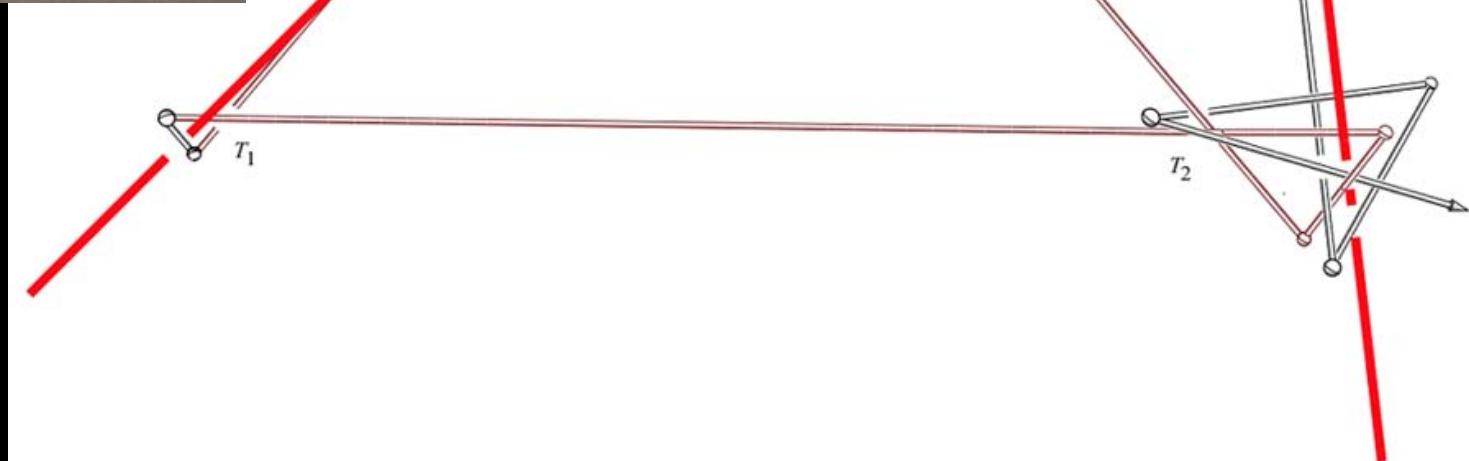
[Demaine, Langerman, O'Rourke, Snoeyink 2003]

Brunet,  
Irving,  
O'Rourke  
2004



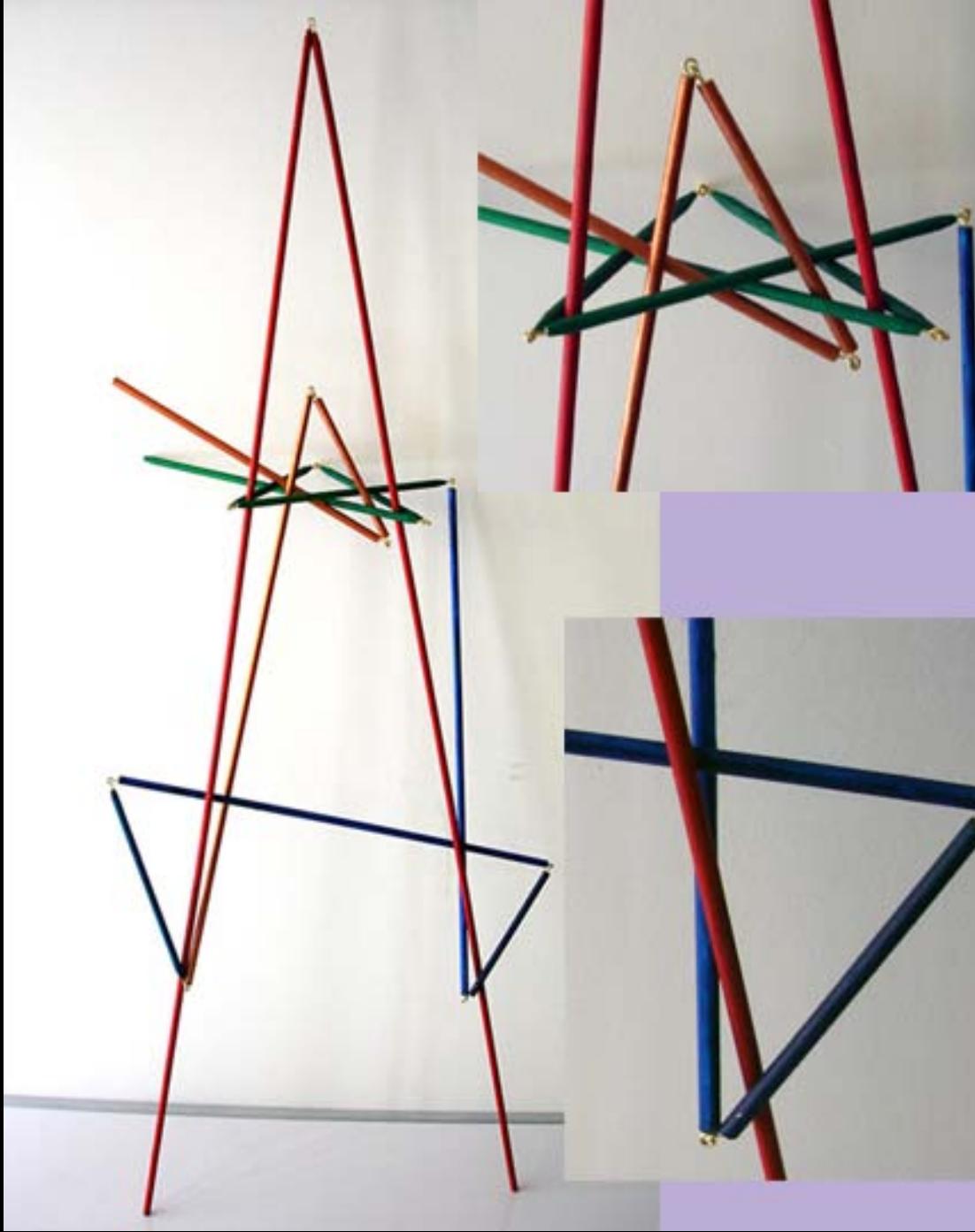
Courtesy of Joseph O'Rourke.  
Used with permission.

Glass,  
Langerman,  
O'Rourke,  
Snoeyink,  
Zhong 2004



Courtesy of Julie Glass, Stefan Langerman, Joseph O'Rourke, Jack Snoeyink, Jianyuan K. Zhong. Used with permission.

Glass, Lu,  
O'Rourke,  
Zhong 2006



Courtesy of Joseph O'Rourke. Used with permission.

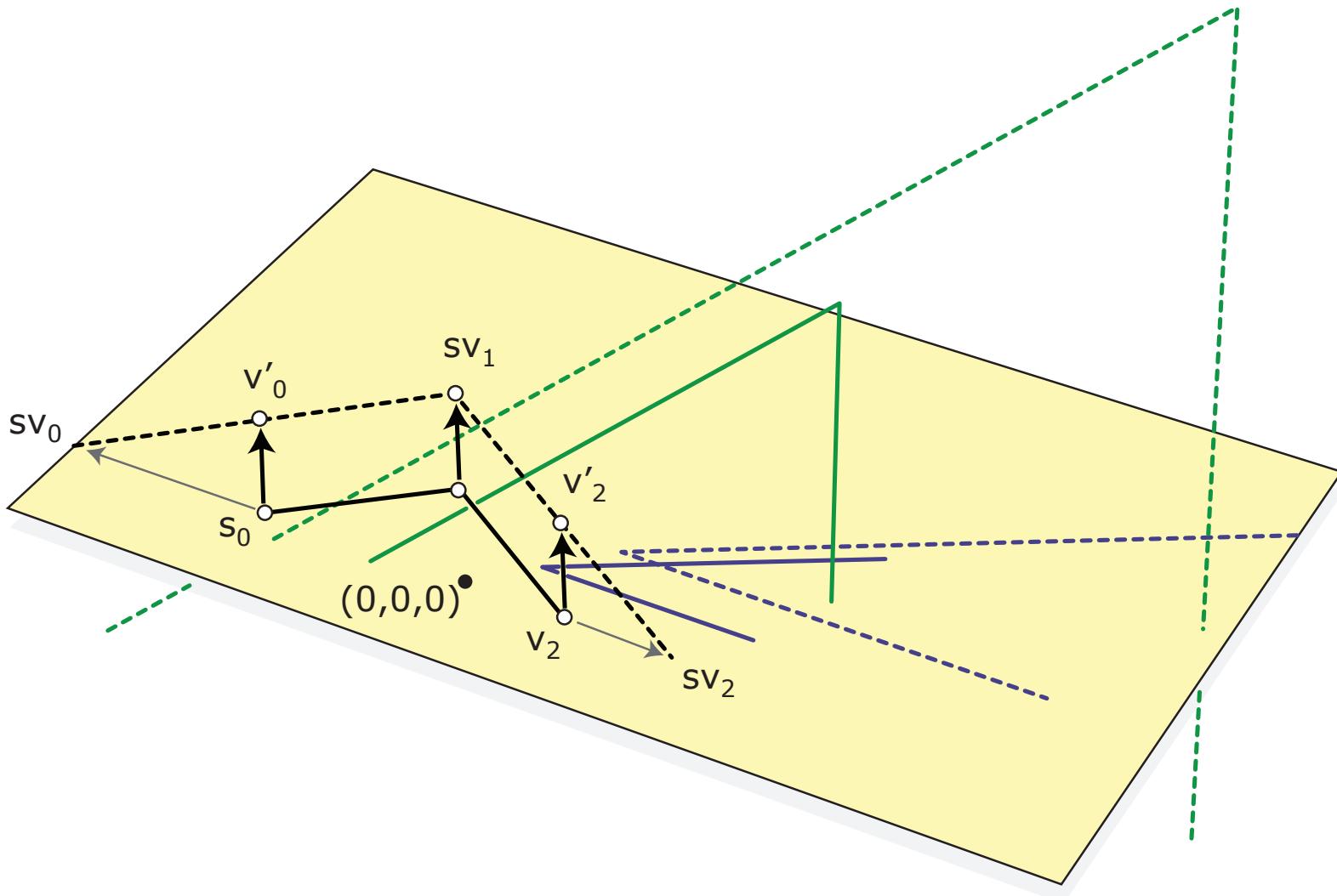


Image by MIT OpenCourseWare.  
See also [http://erikdemaine.org/papers/InterlockedLinkages\\_SoCG2002/](http://erikdemaine.org/papers/InterlockedLinkages_SoCG2002/).

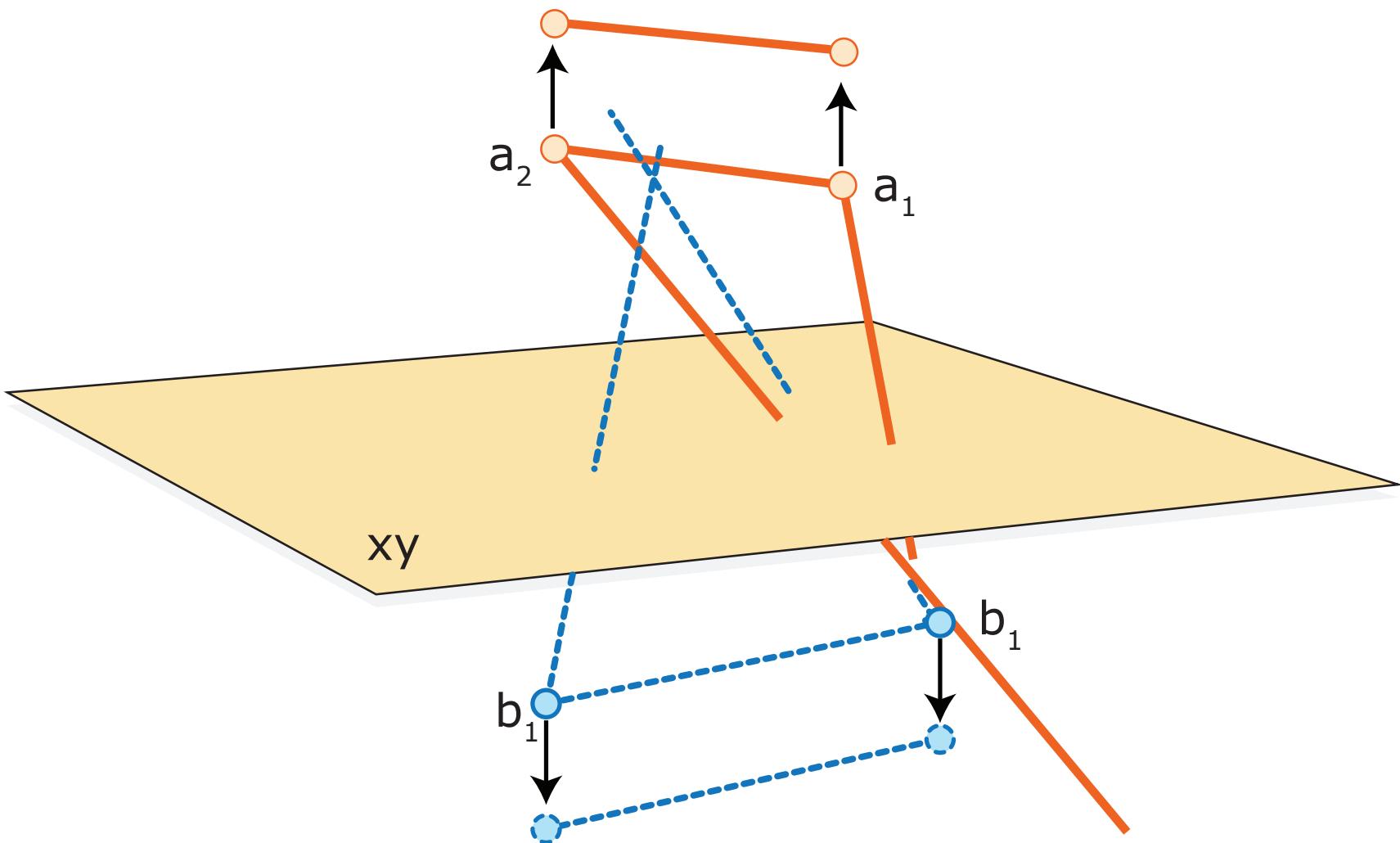
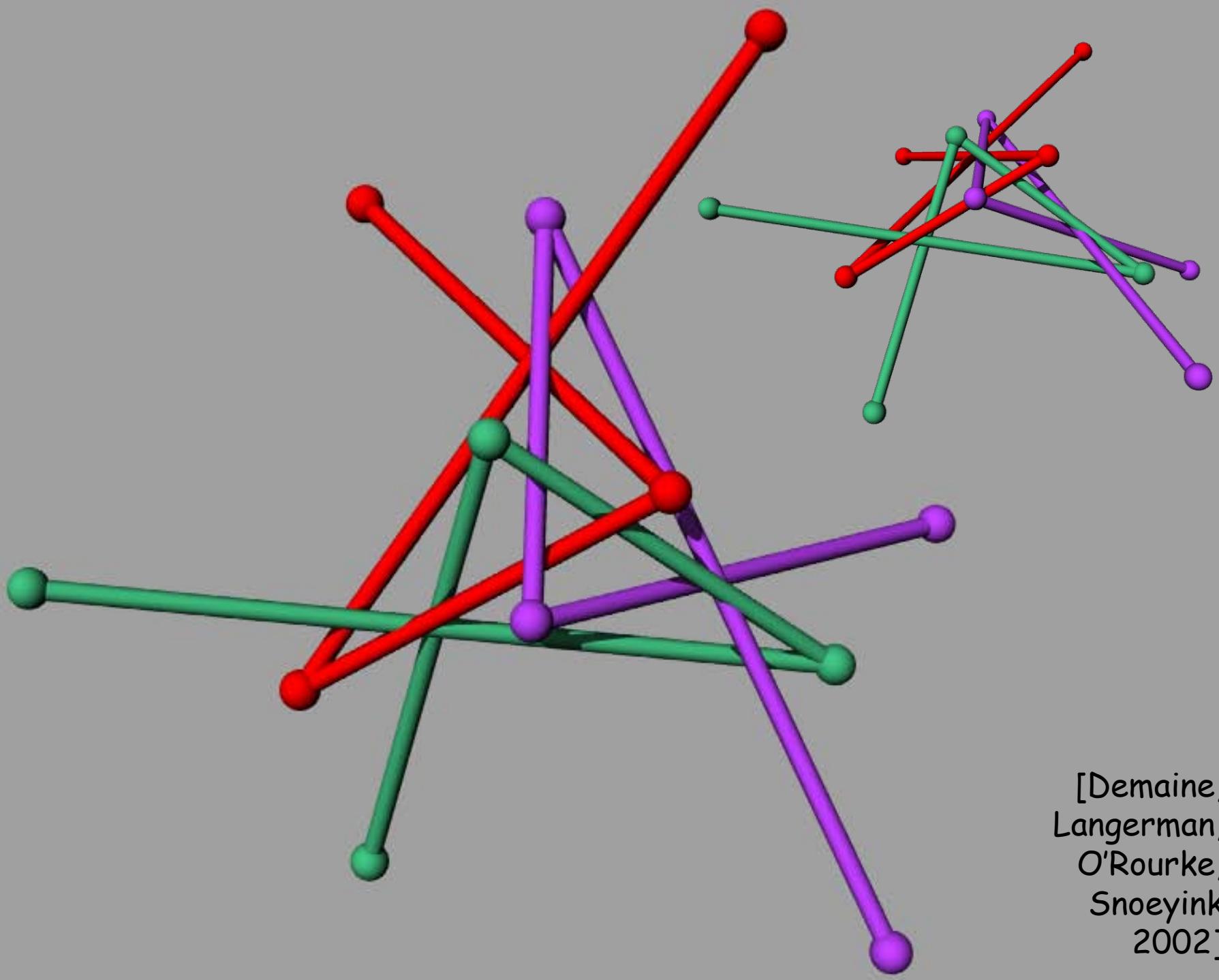


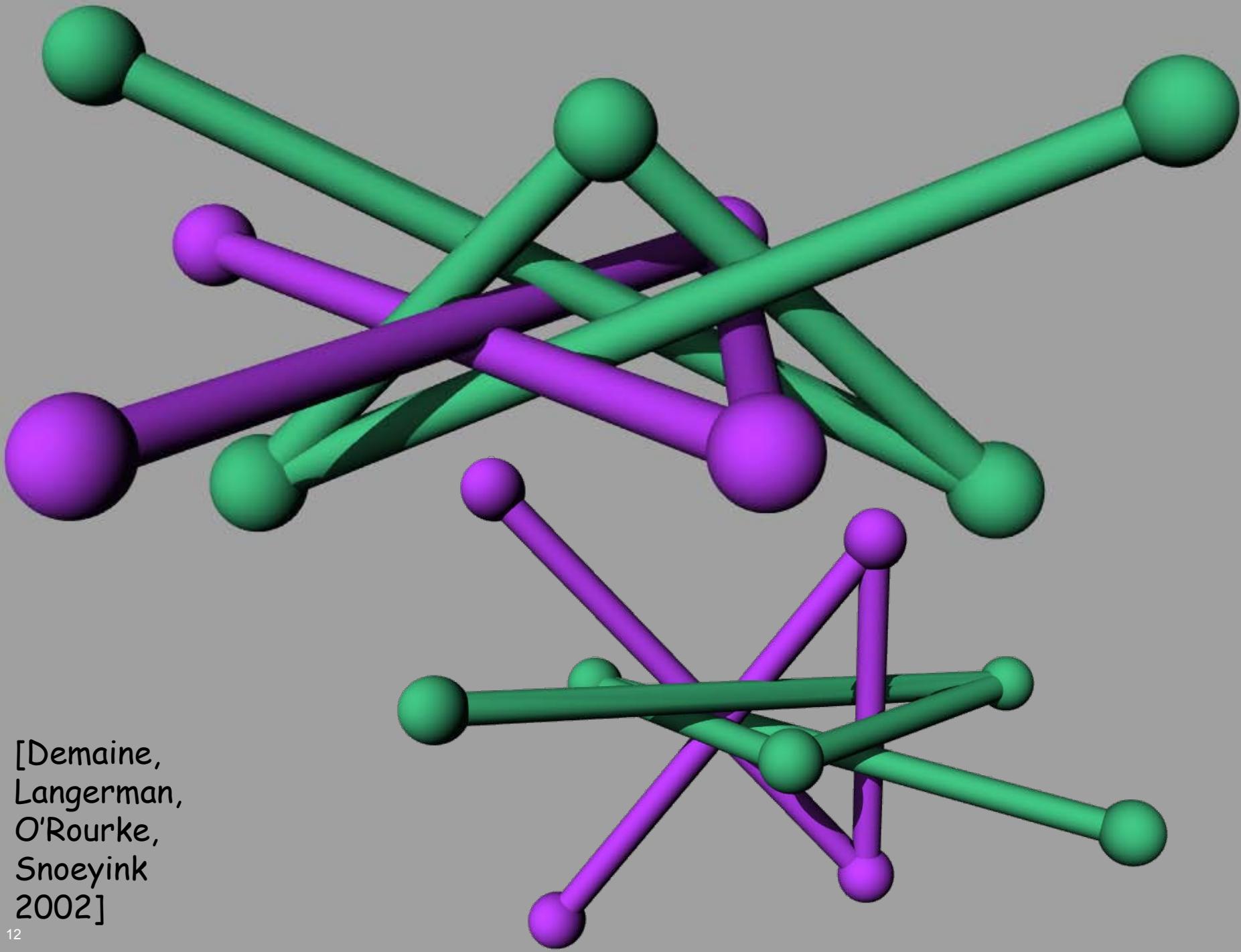
Image by MIT OpenCourseWare.

See also [http://erikdemaine.org/papers/InterlockedLinkages\\_SoCG2002/](http://erikdemaine.org/papers/InterlockedLinkages_SoCG2002/).

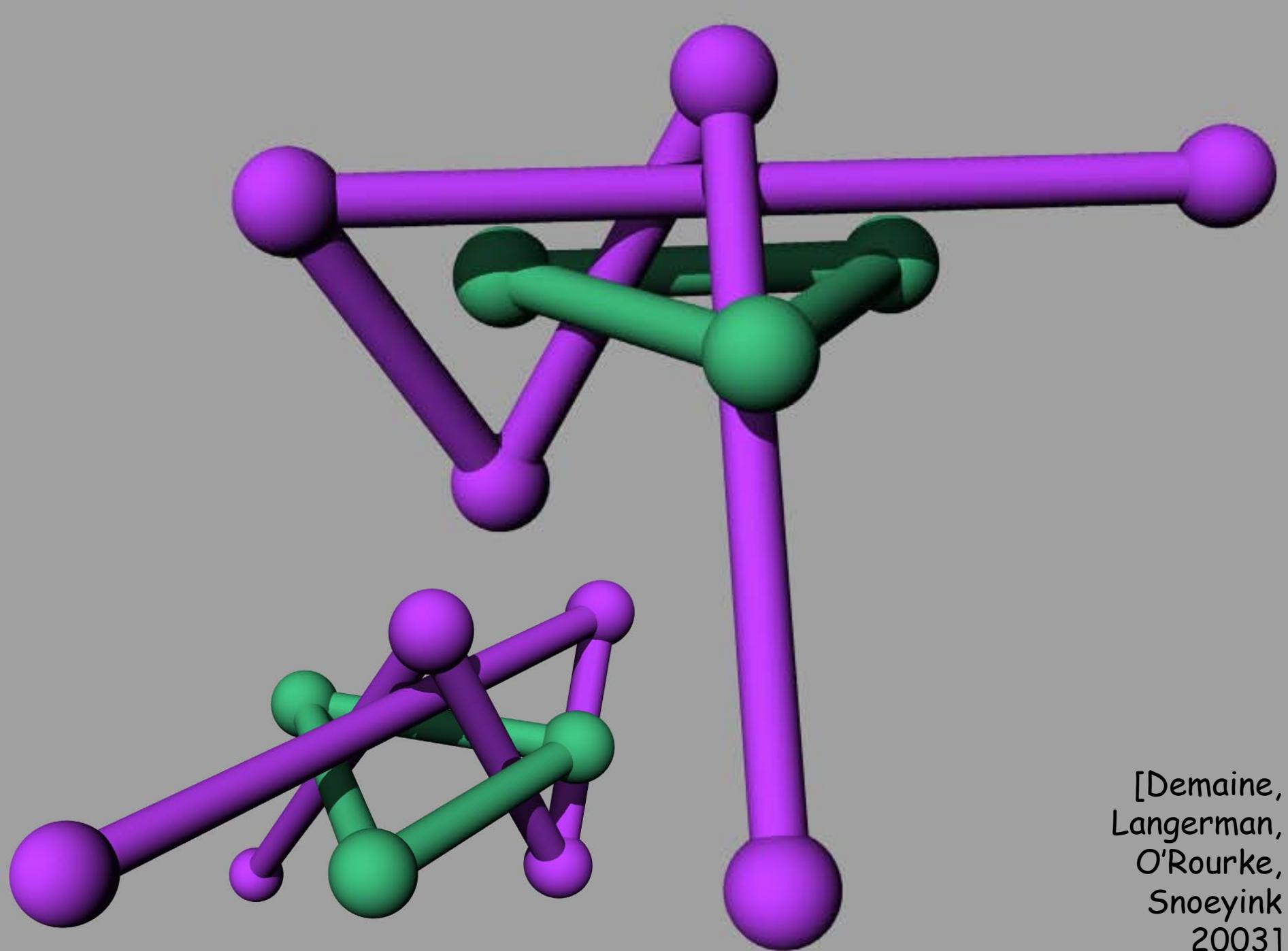
[Demaine, Langerman, O'Rourke, Snoeyink 2002]



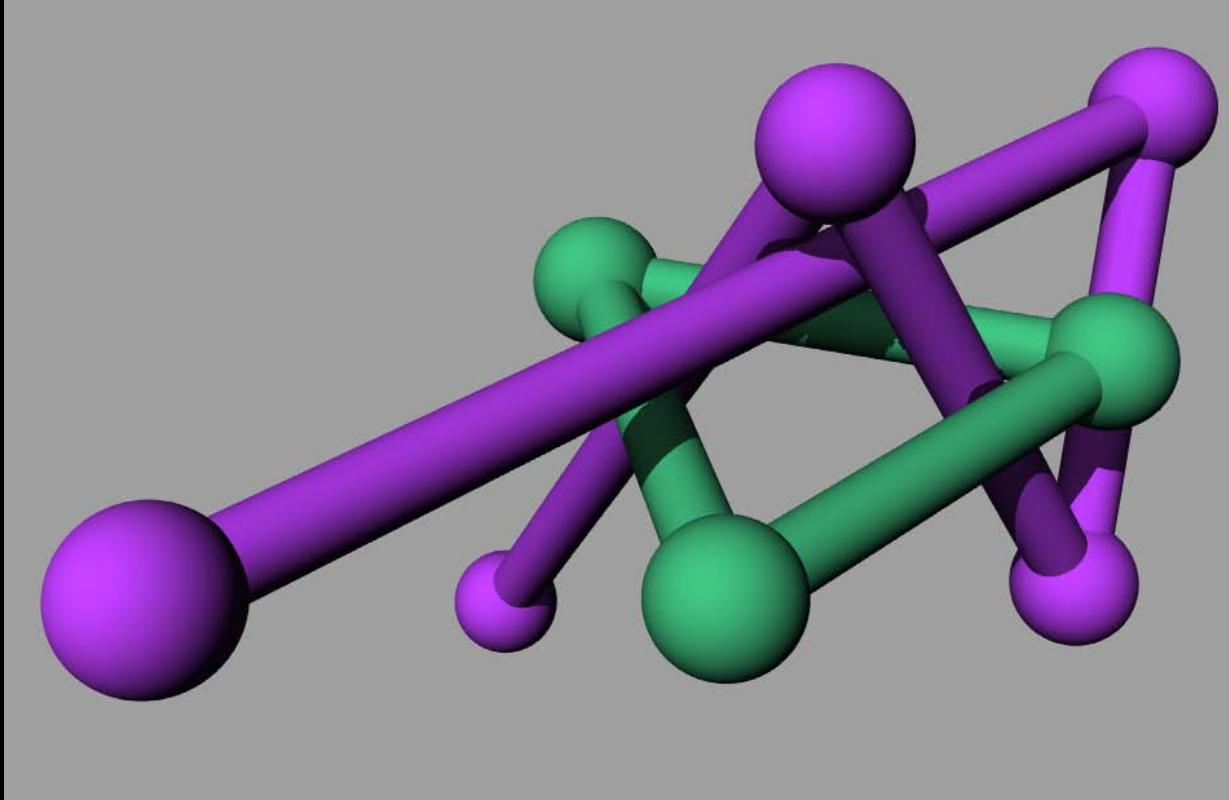
[Demaine,  
Langerman,  
O'Rourke,  
Snoeyink  
2002]



[Demaine,  
Langerman,  
O'Rourke,  
Snoeyink  
2002]



[Demaine,  
Langerman,  
O'Rourke,  
Snoeyink  
2003]



[Demaine,  
Langerman,  
O'Rourke,  
Snoeyink  
2003]

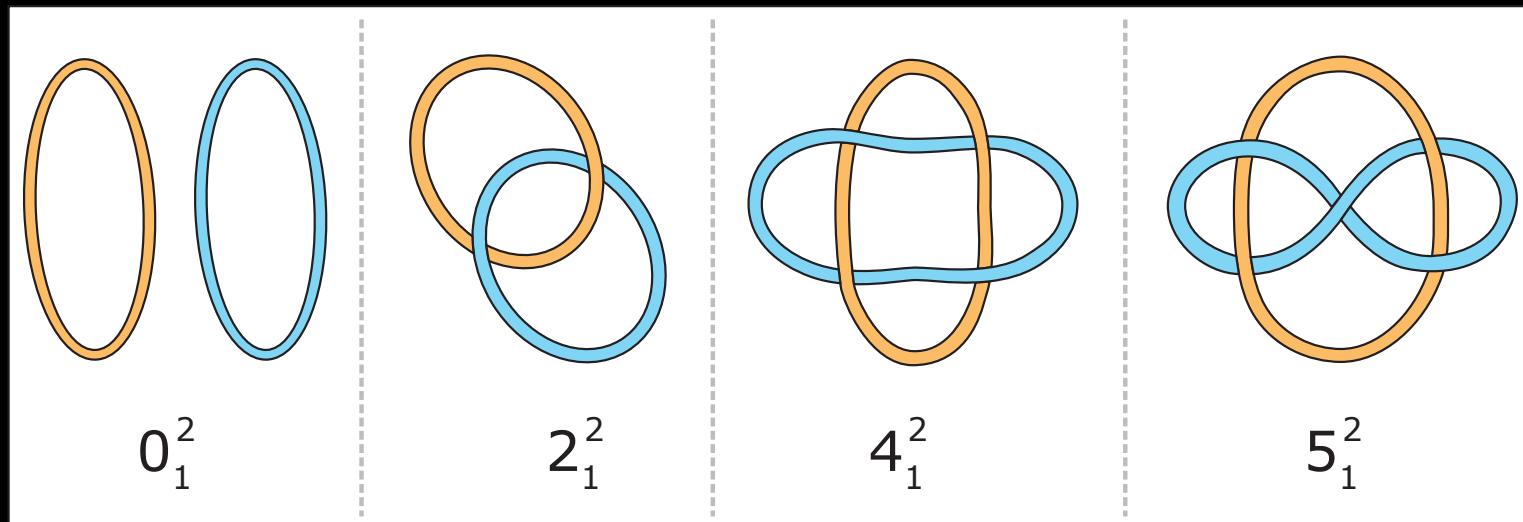
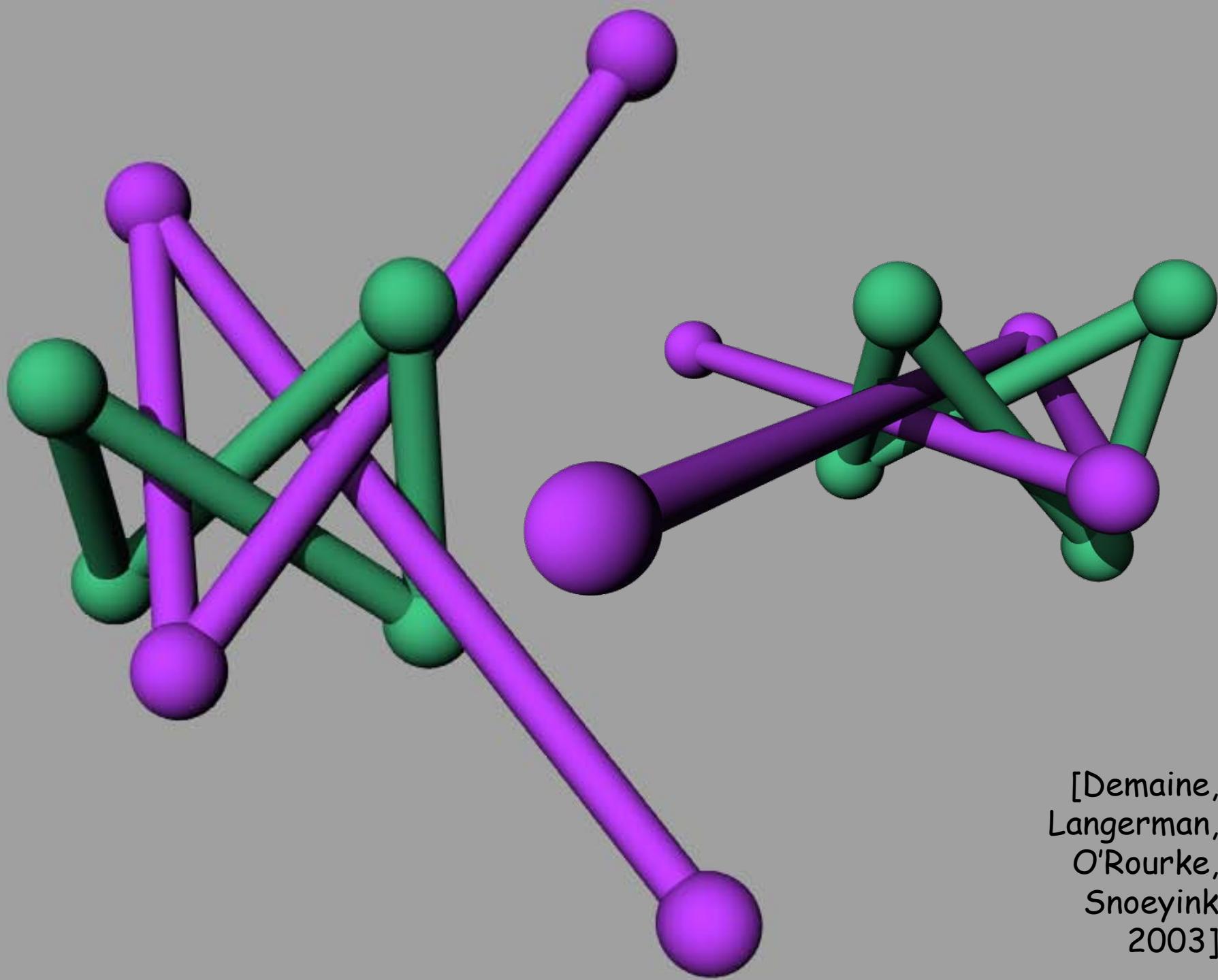


Image by MIT OpenCourseWare.



[Demaine,  
Langerman,  
O'Rourke,  
Snoeyink  
2003]

locked chains?	2		3			4			5	
	univ.	rigid	univ.	fixed angle	rigid	univ.	fixed angle	rigid	rigid	rigid
2	univ.	-	-	-	-	-	-	-	-	+
	rigid	-	-	-	-	+	+	+	+	+
3	univ.	-	-	-	-	+	+	+	+	+
	fixed angle	-	-	-	+	+	+	+	+	+
	rigid	-	+	+	+	+	+	+	+	+
4	univ.	-	+	+	+	+	+	+	+	+
	fixed angle	-	+	+	+	+	+	+	+	+
	rigid	-	+	+	+	+	+	+	+	+
5	rigid	+	+	+	+	+	+	+	+	+

[Demaine, Langerman, O'Rourke, Snoeyink 2002]

MIT OpenCourseWare  
<http://ocw.mit.edu>

6.849 Geometric Folding Algorithms: Linkages, Origami, Polyhedra  
Fall 2012

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.