

1125-57-606

Colin Adams* (cadams@williams.edu), Department of Mathematics, Bronfman Science Center, Williams College, Williamstown, MA 01267. *Open accessible problems in knot theory.*

Knot theory provides fertile ground for undergraduate research. There are pretty pictures, students can work on explicit examples immediately, and there is deep and beautiful mathematics embedded in the subject. In this talk, we will see how one can generalize the concept of crossing number of knots to obtain a bucketful of open questions. Moreover, we can define petal number (least number of petals in a flower-like diagram that represents the knot) and come up with many more fascinating questions. (Received September 07, 2016)