

1083-13-60

Michael R DiPasquale* (dipasqu1@illinois.edu), Department of Mathematics, 1409 W.
Green Street, Urbana, IL 61801. *Shellability and Freeness of Continuous Splines.*

We provide an example of a shellable polyhedral complex \mathcal{P} in \mathbb{R}^2 such that the module of continuous splines $C^0(\hat{\mathcal{P}})$ is not a free module over the polynomial ring in three variables, answering a question raised by Schenck in his paper *Equivariant Chow Cohomology of Non-Simplicial Toric Varieties*. (Received August 14, 2012)