

MSRI–Evans Talk

Monday, 4:10–5:00pm, 60 Evans

Oct. 9 **Günter M. Ziegler**, Technische Universität, Berlin
Extremal surfaces and fat polytopes via projections (and why some of the constructions don't work)

Very interesting polyhedral surfaces, 3-dimensional tilings, and 4-dimensional polytopes can be constructed by projecting high-dimensional simple polytopes. In this lecture, the following will occur: very interesting will be defined, what all these objects have to do with each other will be explained, the construction principles will be sketched (linear algebra at work!), and Borsuk and Ulam will be blamed for the fact that the constructions don't work in odd cases.

Refreshments at a nearby establishment immediately following the talk!

Further information and links to the MSRI program and workshop web pages are available at:
<http://www.msri.org>