1023-20-297 **Tadeusz Januszkiewicz*** (tjan@math.ohio-state.edu). *Systolic spaces: Minimal surfaces, Flat Torus Theorem and related results, according to Tomasz Elsner.*

Systolic complexes are simplicial analogs of CAT0 spaces. They do exhibit some striking two dimensional features, even though their dimension can be arbitrarily large.

I will present recent results of Tomasz Elsner, a PhD student at Wroclaw University. Starting with examination of minimal surfaces in systolic spaces, he gives a precise version of a Flat Torus Theorem and a systolic variant of Dani Wise's characterization of relative hyperbolicity of two dimensional CAT0 complexes. (Received September 04, 2006)