Trees of manifolds and boundaries of systolic groups.

Paweł Zawiślak

Wrocław

The notion of systolic complexes and groups was introduced by Januszkiewicz and Świątkowski and independently by Haglund. It is an simplicial analogue of the non-positive curvature. In particular Januszkiewicz and Świątkowski showed that 7-systolic complexes are Gromov hyperbolic.

I will show that Pontriagin Sphere and Pontriagin Nonorientable Surface occur as Gromov boundaries of some systolic grops.