## 1012-57-62Satyan L Devadoss\* (satyan.devadoss@williams.edu). Point Configurations and Coxeter<br/>Operads. Preliminary report.

The minimal blow-ups of simplicial Coxeter complexes are natural generalizations of the real moduli space of Riemann spheres. They inherit a tiling by the graph-associahedra convex polytopes. We obtain explicit configuration space models for the classical infinite families of finite and affine Weyl groups  $(A, B, D, \tilde{A}, \tilde{B}, \tilde{C}, \tilde{D})$  using particles on lines and circles. A Fulton-MacPherson compactification of these spaces is described and this is used to define a *Coxeter operad*. (Received September 02, 2005)