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Mykhailo Bilogliadov* (mbilogli@math.okstate.edu), Department of Mathematics,
Oklahoma State University, Stillwater, OK 74078. *Equilibria of the field generated by point charges
at the vertices of a regular polygon.* Preliminary report.

We consider the problem of finding the number of equilibrium points for a potential generated by n positive unit point charges placed at the vertices of a regular polygon. We prove that the equilibrium points are located on the bisectors of the sides of this polygon. (Received November 08, 2012)