1019-57-140   **N. Shirokova*** (`nadya@math.stanford.edu`), 450 Serra Mall, Bld. 380, Mathematics
Department, Stanford, Palo Alto, CA 94305. *Moduli space of 4-manifolds and the universal
Seiberg-Witten invariant.* Preliminary report.

We construct the configurational space points of which correspond to smooth stably parallelizable 4-manifolds embedded into an infinite dimensional euclidean space. Connected components of the complement to the discriminant are homotopy equivalent to the classifying group of diffeomorphism of the corresponding 4-manifold. We consider the universal Seiberg-Witten invariant as a step function on chambers and construct its family version. We also introduce a simple 4-manifold invariant of finite type one. (Received August 13, 2006)