

1123-57-190

Sumeyra Sakalli* (saka1008@umn.edu). *The new symplectic 4-manifolds with positive signature.* Preliminary report.

We will construct new symplectic 4-manifolds with positive signature by using line arrangements in $\mathbb{C}\mathbb{P}^2$. On the way, we will remind the basic features of the Galois coverings. If time permits, we will also provide new minimal, symplectic 4-manifolds between the Noether and half Noether lines. This is a joint work with A. Akhmedov. (Received August 26, 2016)