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Anar Akhmedov* (akhmedov@umn.edu), Minneapolis, MN 55455, and **Weiyi Zhang**. *New symplectic 4-manifolds with $b_2^+ = 1$* . Preliminary report.

We will discuss the topology of symplectic 4-manifolds with $b_2^+ = 1$ and provide various constructions of symplectic 4-manifolds and Lefschetz fibrations with $b_2^+ = 1$ and prescribed c_1^2 . This talk is based on two separate joint works Weiyi Zhang and Naoyuki Monden. (Received August 26, 2016)