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Anar Akhmedov* (ahmadov@math.gatech.edu), School of Mathematics, Georgia Institute of Technology, Atlanta, GA 30332. *Construction of new symplectic cohomology $S^2 \times S^2$* . Preliminary report.

In this talk, we present new symplectic 4-manifolds with same cohomology as $S^2 \times S^2$. We also construct an infinite family of such non-symplectic 4-manifolds. Generalization of this construction will be given as well, i.e. an infinite family of symplectic(non-symplectic) 4-manifolds with same cohomology as $\#_{2g-1} S^2 \times S^2$.

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