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Anar Akhmedov* (Akhmedov@Umn.edu). *Simply connected symplectic Calabi-Yau 6 manifolds*. Preliminary report.

We construct simply connected symplectic Calabi-Yau 6 manifolds by applying Gompf's symplectic connected sum operation along T^4 . We also produce the first examples of simply connected symplectic Calabi-Yau and non-Calabi-Yau 6 manifolds via coisotropic Luttinger surgery. (Received July 22, 2011)