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Anar Akhmedov (Submitted on 13 Jul 2011 (v1), last revised 25 Jul 2011 (this version, v3)) In this paper, we construct simply connected symplectic Calabi-Yau 6manifolds by applying Gompf's symplectic fiber sum operation along \$T^4\$. Using our construction, we also produce symplectic non-K\"{a}hler Calabi-

Simply Connected Symplectic Calabi-Yau 6-

Yau 6-manifolds with fundamental group \$\Z\$. In this paper, we also produce the first examples of simply connected symplectic Calabi-Yau and non-Calabi-Yau 6-manifolds via coisotropic Luttinger surgery.

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