1093-57-344 Chris Hays*, cshays@math.msu.edu. k-fold sums.

We develop a method for creating concave fillings of certain torus bundles over S^1 by using a configuration of k pairs of symplectic surfaces $\{S_i, T_i\}_{i=1}^k$ in a closed symplectic 4-manifold, such that S_i intersects T_i transversely in a single point and T_i is symplectomorphic to S_{i+1} . We proceed to identify the induced contact structure on the boundary. In many cases we can find a convex filling for this contact structure, allowing us to extend the concave filling to a closed symplectic 4-manifold. (Received August 20, 2013)