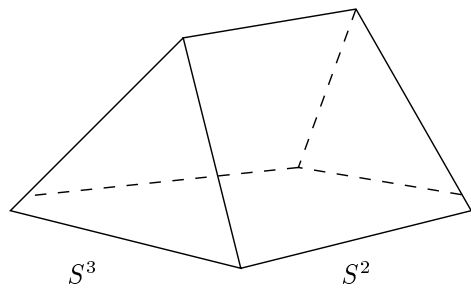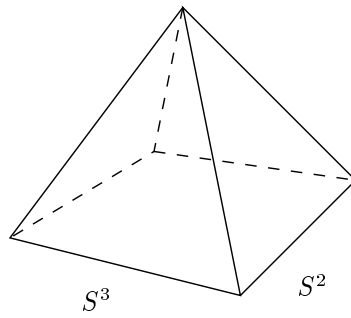Riemann surface

Lagrangian submanifold

deformed conifold

$S^3 \times C(S^2)$

resolved conifold

$C(S^3) \times S^2$

conifold

$C(S^3 \times S^2)$