Figure 1
Schematic reproduction of SDCM Swallowtail in a 3/4 resonance region.

Figure 2
FAK Swallowtail.

Figure 3
Fixed points by graph.

Figure 4
Standard Family: 0/1 surface.
Figure 5
Standard Family: several surfaces.

Figure 6
Coincident Projections.

Figure 7
Noncoincident Projections.

Figure 8
Bump functions.
Figure 9a
Single flame.

Figure 9b
Single Flame.

Figure 10
Double Flame.

Figure 11
Center Fold.
Figure 12a
Left-side crossing.

Figure 12b
Left-side crossing.

Figure 13
Full Twist.

Figure 14a
The two mode parameter space.

\[
\frac{(1-A)}{2} \sin(2x) + A \sin(x + B)
\]
Figure 14b
The Swallowtail path.

Figure 15
Left-edge Swallowtail.