

Figure 1

Schematic reproduction
of SDCM Swallowtail in a
3/4 resonance regime.

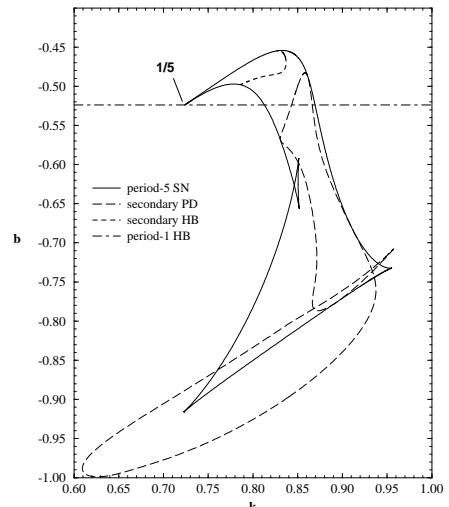


Figure 2

FAK Swallowtail.

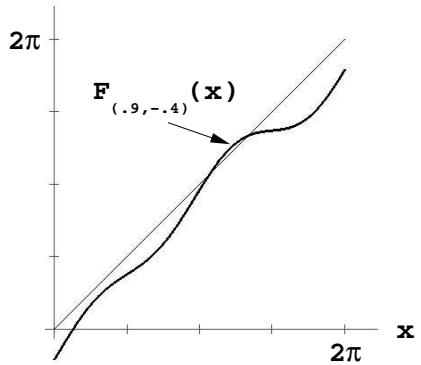


Figure 3

Fixed points by graph.

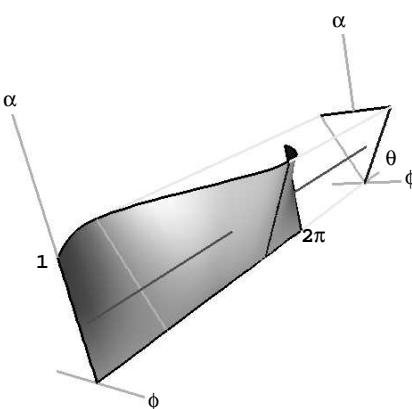


Figure 4

Standard Family:
0/1 surface.

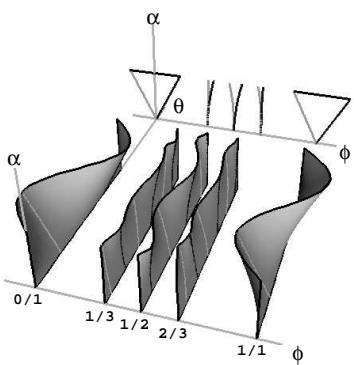


Figure 5
Standard Family:
several surfaces.

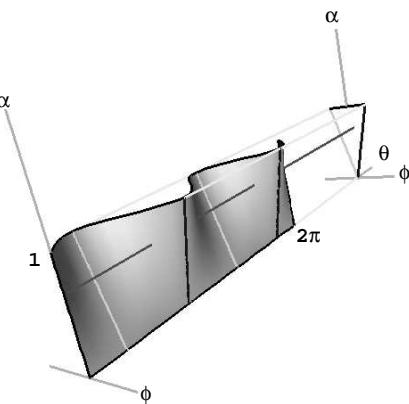


Figure 6
Coincident Projections.

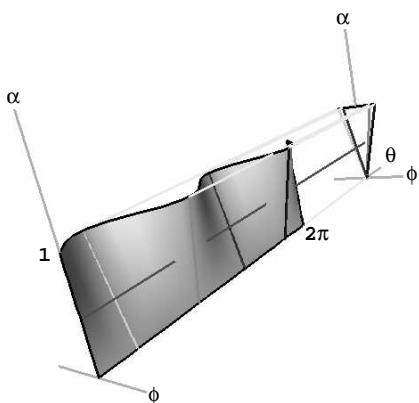


Figure 7
Noncoincident
Projections.

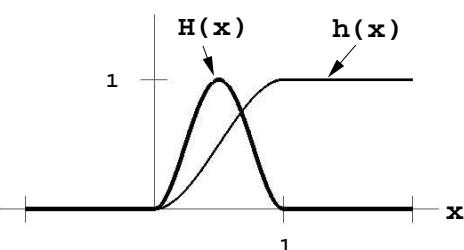


Figure 8
Bump functions.

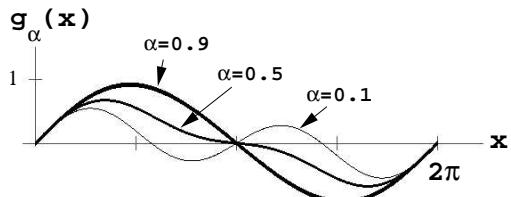


Figure 9a
Single flame.

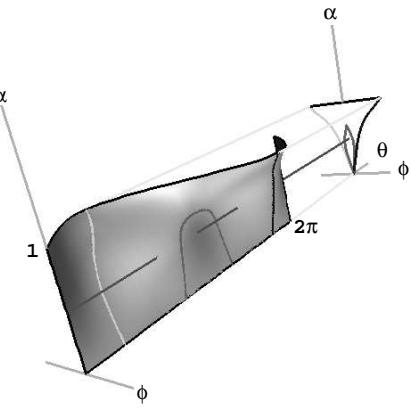


Figure 9b
Single Flame.

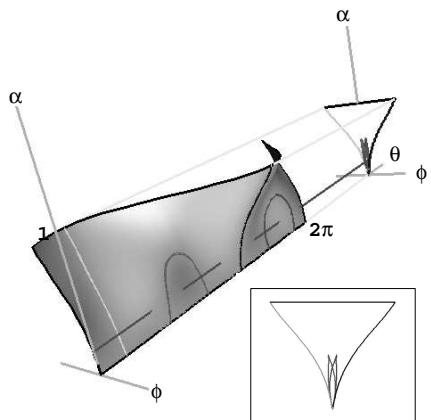


Figure 10
Double Flame.

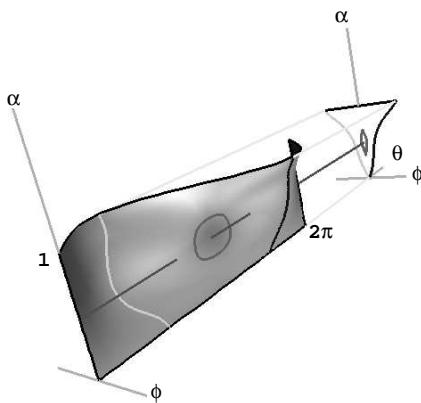


Figure 11
Center Fold.

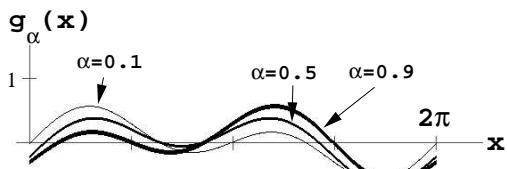


Figure 12a
Left-side crossing.

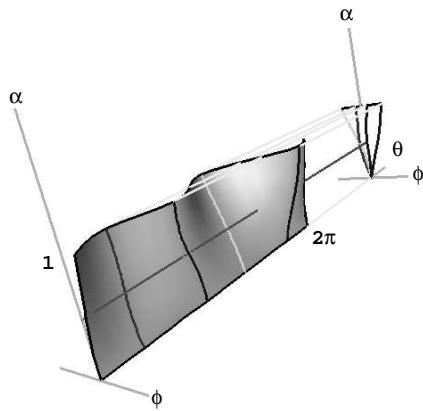


Figure 12b
Left-side crossing.

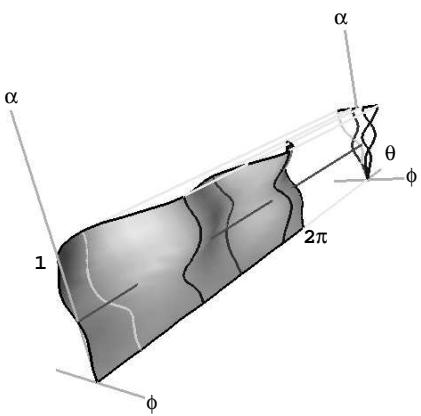


Figure 13
Full Twist.

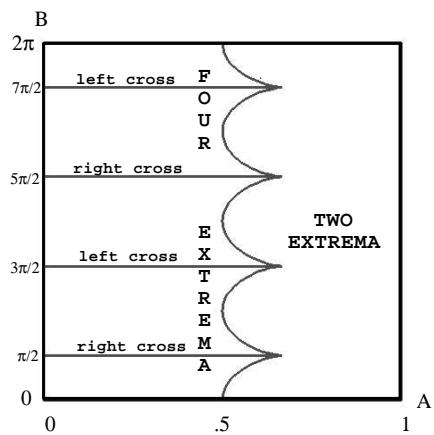


Figure 14a
The two mode parameter space.
 $((1-A)/2) \sin(2x) + A \sin(x + B)$

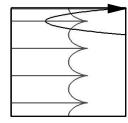


Figure 14b

The Swallowtail path.

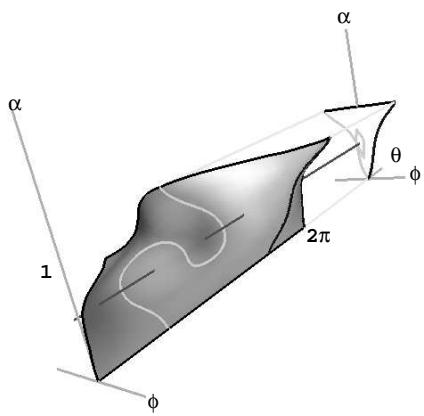


Figure 15

Left-edge Swallowtail.