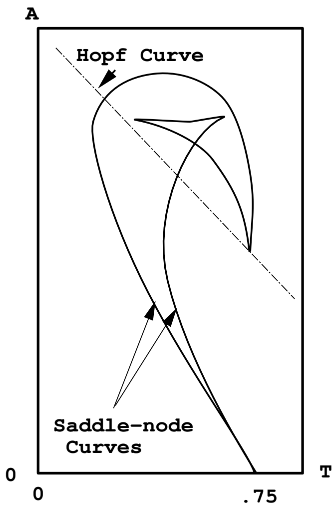

Figure 1

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

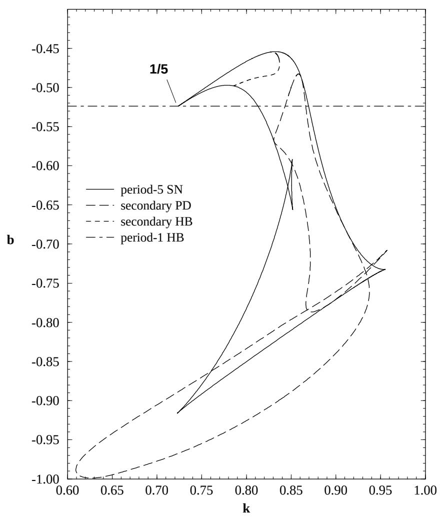

Figure 2

FAK Swallowtail.

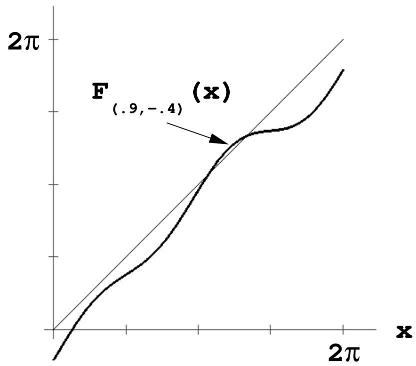

Figure 3

Fixed points by graph.

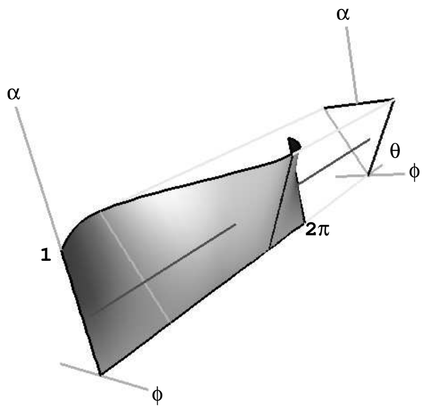

Figure 4

Standard Family: 0/1 surface.

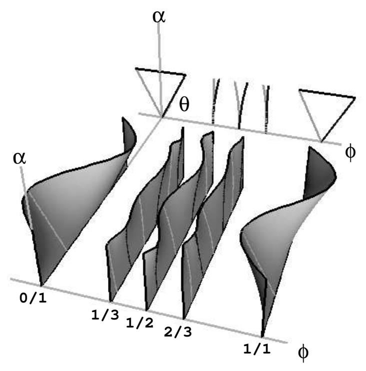

Figure 5
Standard Family: several surfaces.

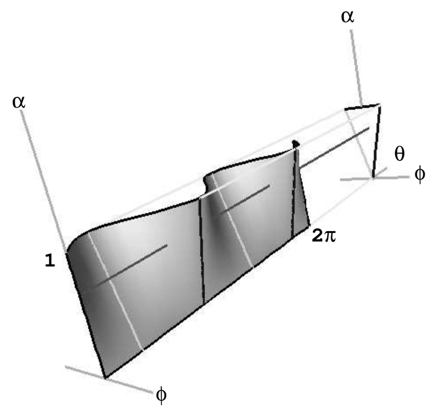

Figure 6

Coincident Projections.

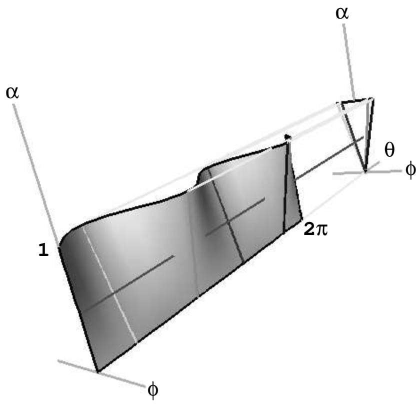

Figure 7
Noncoincident Projections.

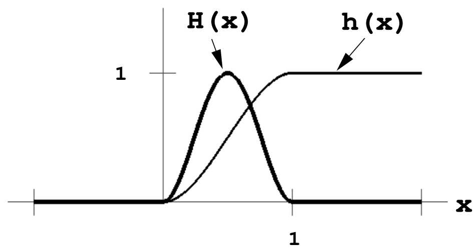

Figure 8

Bump functions.

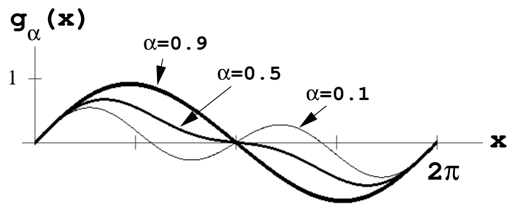

Figure 9a

Single flame.

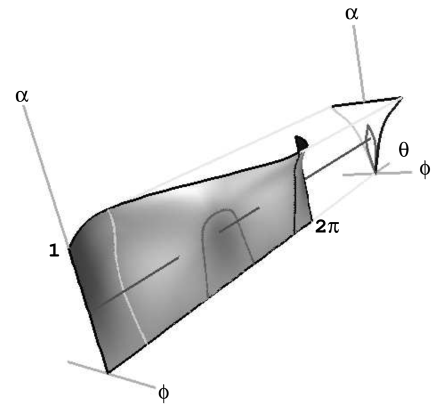

Figure 9b

Single Flame.

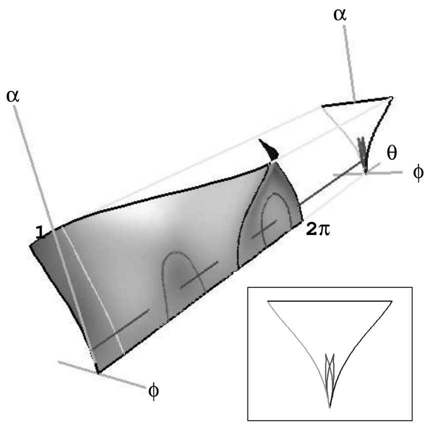

Figure 10

Double Flame.

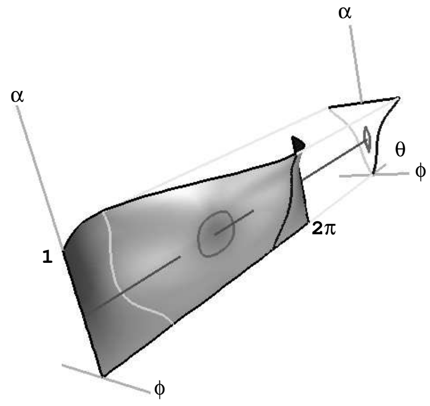

Figure 11

Center Fold.

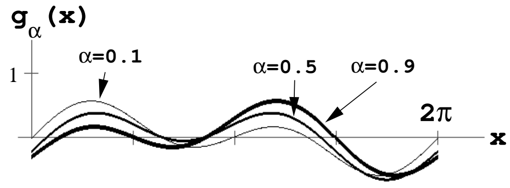

Figure 12a
Left-side crossing.

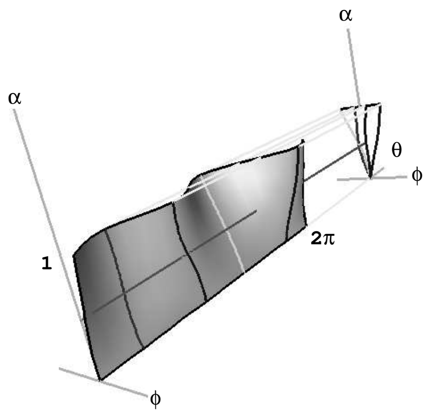

Figure 12b
Left-side crossing.

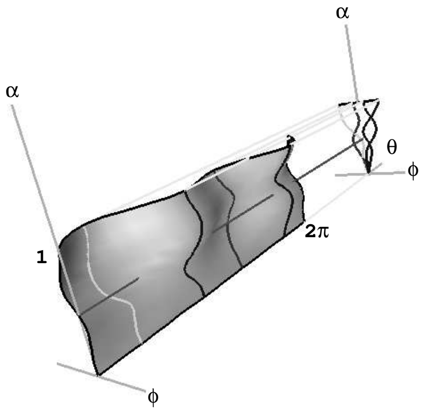

Figure 13
Full Twist.

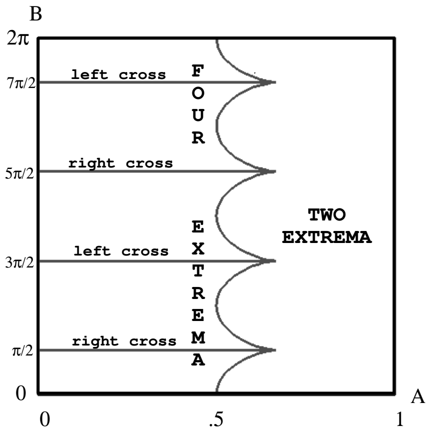

Figure 14a
The two mode parameter space.
((1-A)/2) sin(2x) + A sin(x + B)

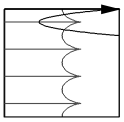

Figure 14b

The Swallowtail path.

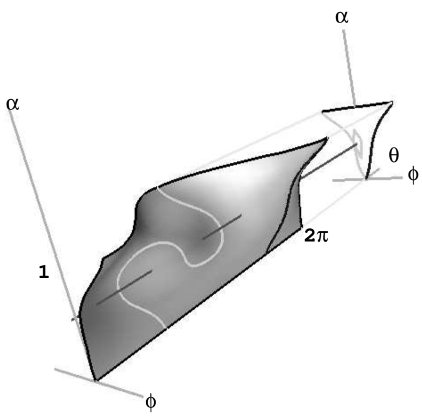

Figure 15

Left-edge Swallowtail.