Resonant Silhouettes of Poincaré (Ramsden & Worrall collaboration)

This highly interactive work, using realtime digital feedback algorithms in the image and sound domain, encourages the audience to explore a complex process of sonic and luminous flux: a continuous synthesis of image and sound folding back into itself. hovering on the boundary between order and chaos.

Interacting with the work allows the audience to explore an endless variety of complex and unique visual and aural forms.

The work is a homage to Poincaré (1854-1912), one of the early pioneering mathematical explorers of chaos and feedback. In an age before computers, his work on celestial mechanics led him to discover homoclinic trajoctories - the first description of chaotic limit sets in history. He visualised complex chaotic processes in his head, and even expressed the fear that these might defy analysis forever. He asserted that the aesthetic rather than the logical is the dominant element in mathematical creativity.

The work is designed to run on an SGI Indigo II workstation with High Impact graphics or better.