Jules et Jim

Three stories

The real story

The novel by Henri-Pierre Roché

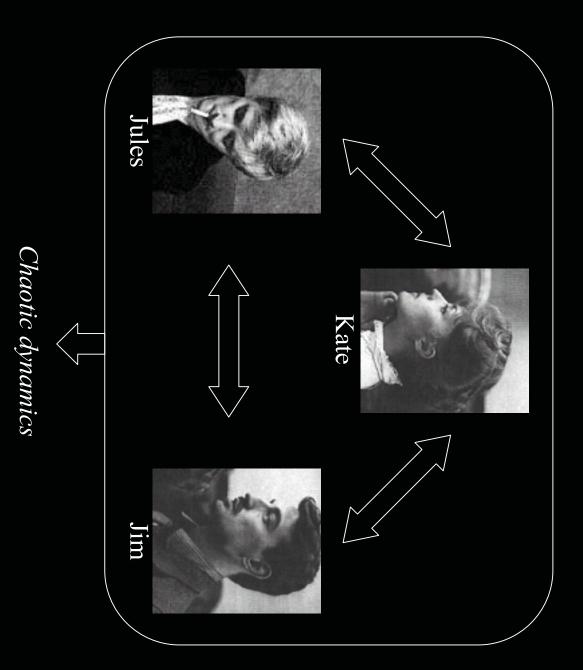
© 1998 MARION BOYARS PUBLISHERS NEW YORK © 1953 EDITIONS GALLIMARD PARIS

The movie by François Truffaut © 1962 JANUS FILMS PARIS

The characters

Oskar Werner Franz Hessel Jeanne Moreau Helen Grund Henri-Pierre Roché Henri Serre

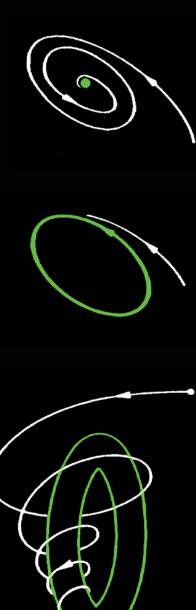
The conjecture





Dynamical system theory in a glance

Four possible asymptotic regimes



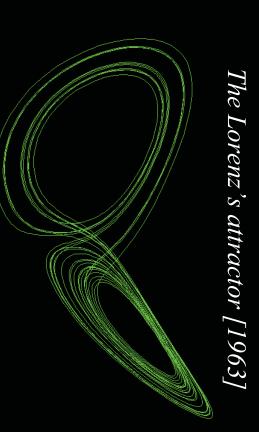
periodic

stationary

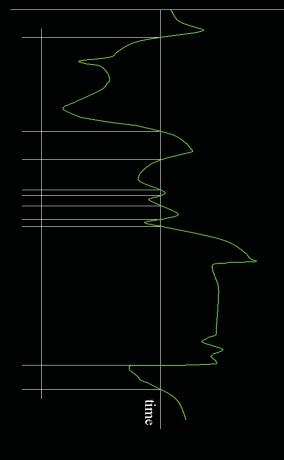


chaotic

quasi-periodic



The characteristics of chaotic dynamics



irregularity and unpredictability

stretching and folding

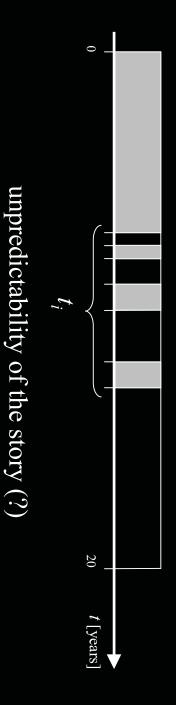
Examples in everyday life

flames in the fireplace river water downstream of a stone sea sickness

•

Elements of chaos in the novel

irregular switch of partnership



Elements of chaos in the movie

unpredictability of the story (!)

voice-over technique the song "Le Tourbillon"



The steps of the study

psychoanalysis of the characters





modeling and analysis

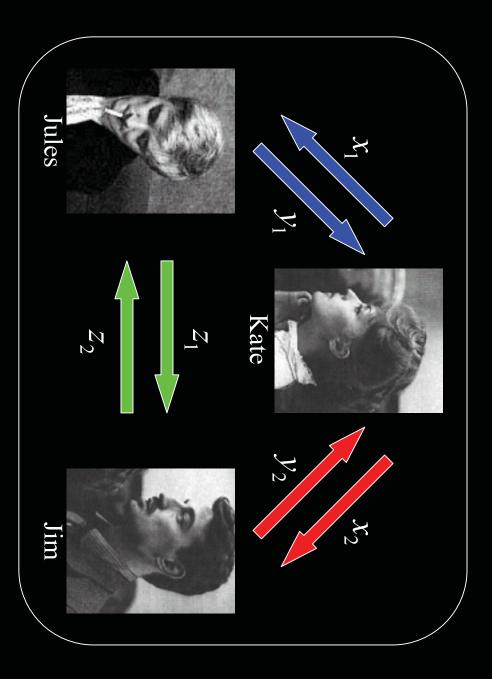
$$x = ?$$



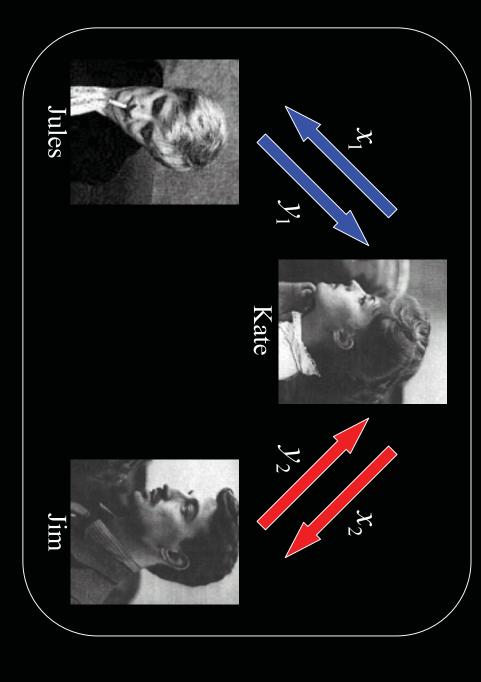
chaotic dynamics



The variables



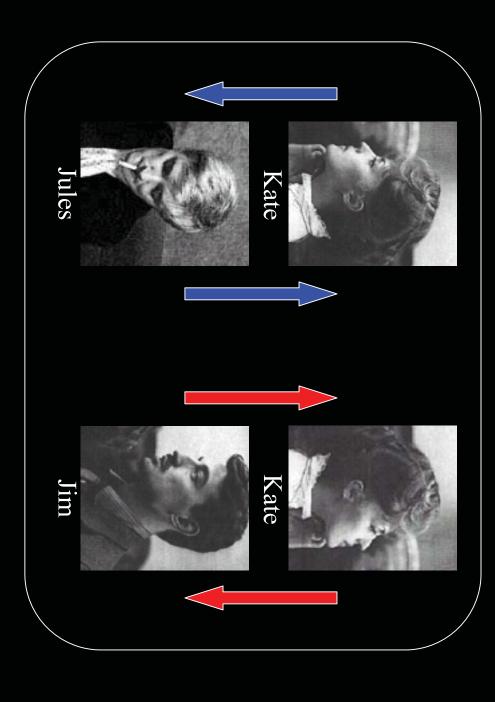
A first simplification



other so wholeheartedly as he and Jim (Roché, 1998, pg. 237). indulgently. Do lovers ever get on so well together? Jules tried to think of a couple who accepted each In twenty years Jim and he had never quarrelled. Such disagreements as they did have they noted

And their long conversation, which had been merely interrupted, began again. Each found that the other had matured, in his own way, but not changed (Roché, 1998, pg. 85).

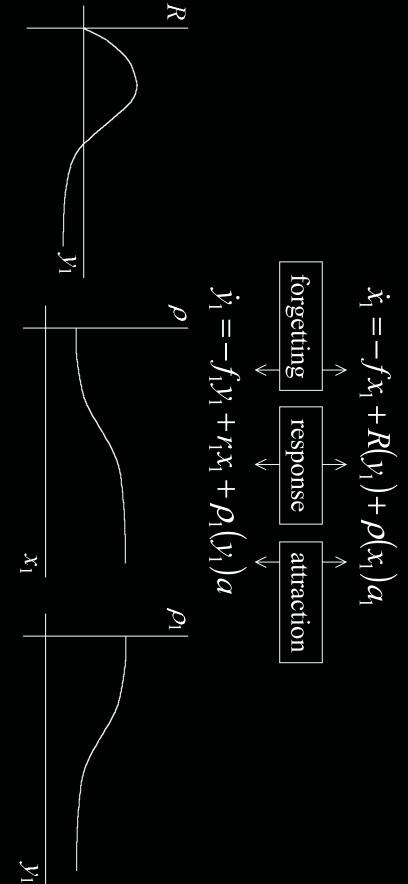
A second (temporary) simplification



others (Roché, 1998, pg. 108). In her mind, each lover was a separate world, and what happened in one world was no concern of the

The Kate-Jules model

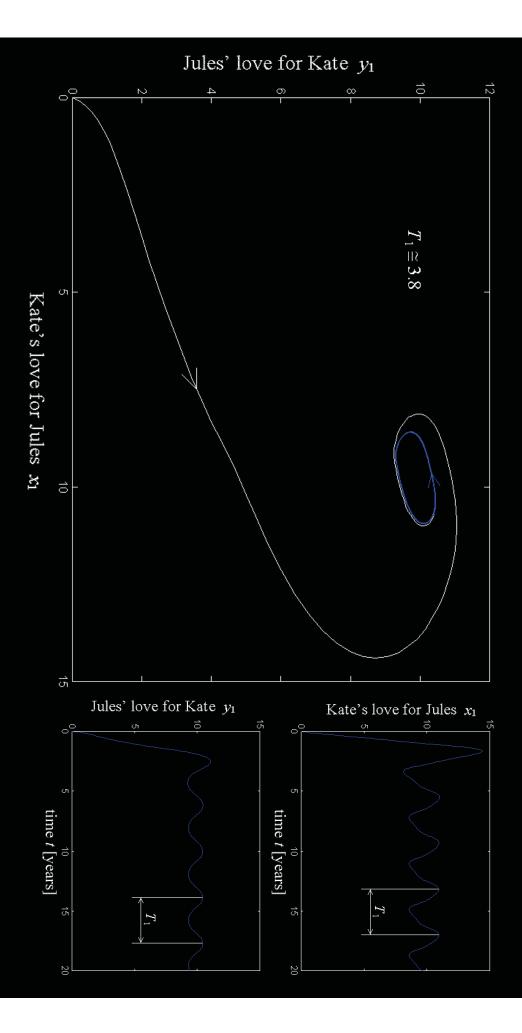
Kate is "non secure" and "synergic", Jules is "secure" and "platonic"



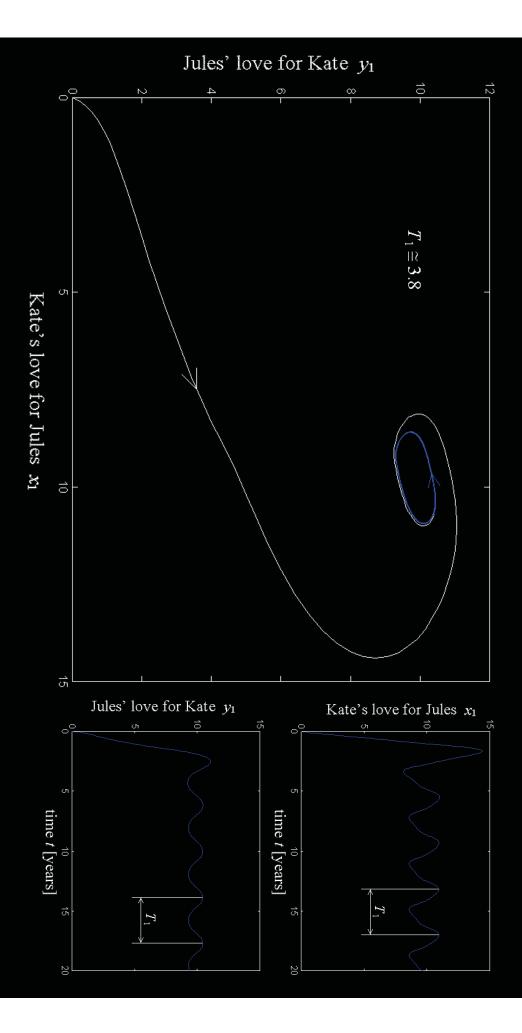
But then, he wasn't the husband she needed, and she wasn't the woman to bear that (Roché, 1998, pg. 89).

She had been drawn by his mind, his gift of fantasy. But she needed, in addition to Jules, a male of her own sort (Roché, 1998, pg. 90).

Really, Jules is happy, in his own way, and just wants things to go on. He's seeing you often, in idyllic circumstances, and he's living on hope (Roché, 1998, pg. 24).







The Kate-Jim model

Kate is "secure" and "synergic", Jim is "non secure" and "non synergic"

$$\dot{x}_{2} = -fx_{2} + r y_{2} + \rho(x_{2}) a_{2}$$

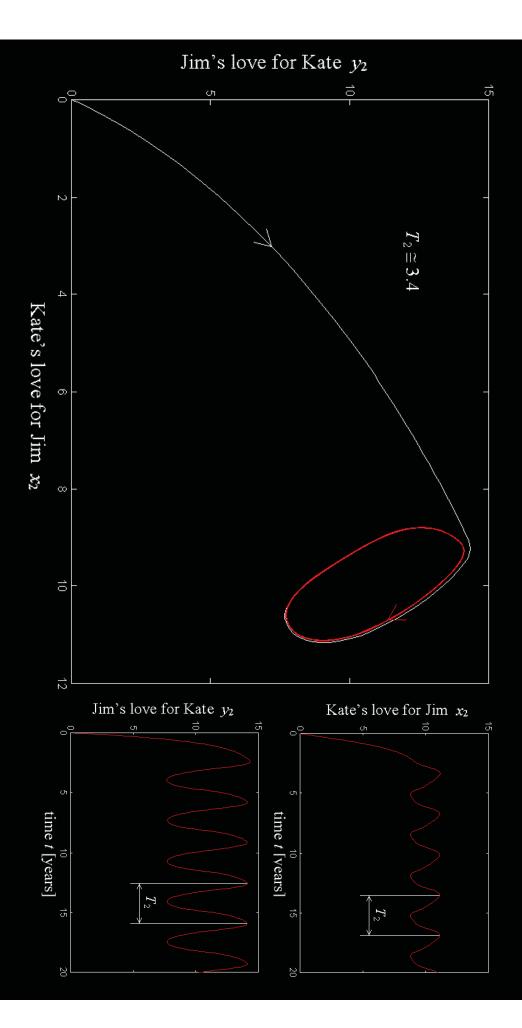
$$\uparrow \qquad \qquad \uparrow \qquad \qquad \uparrow \qquad \qquad \uparrow$$
forgetting response attraction
$$\dot{y}_{2} = -f_{2}y_{2} + R_{2}(x_{2}) + \rho_{2}a$$

$$R_{2}$$

$$R_{2}$$

into a state of exhaustion and involuntary recoil which was the cause of their disasters He himself was incapable of living for months at a time in close contact with Kate, it always brought him (Roché, 1998, pg. 189).

me everything?' (Roché, 1998, pg. 207). 'Oh, when,' she said to him one day, — 'when are you going to stop giving me bits of yourself and give



The complete model

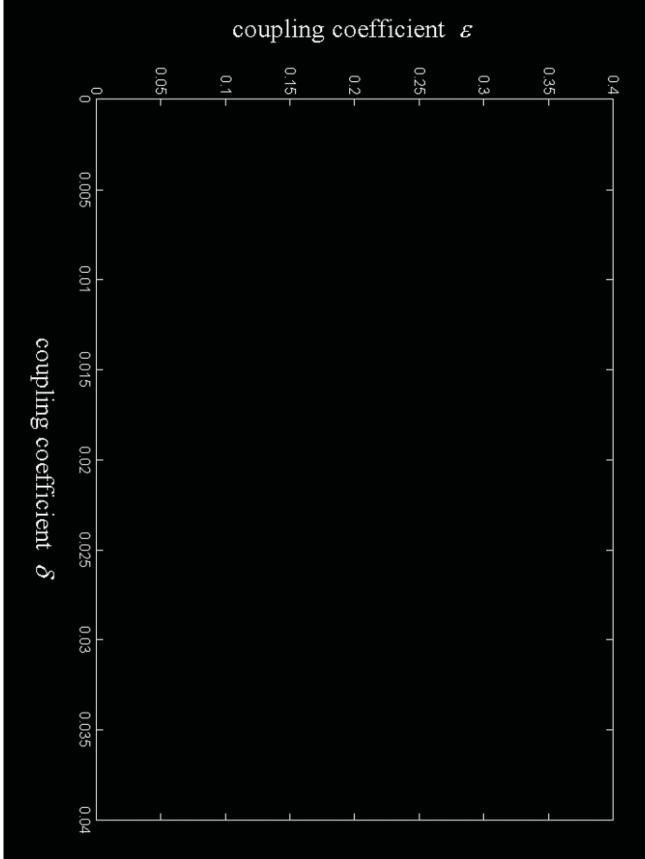
Jules is not jealous and pleased for Jim, Jim is jealous

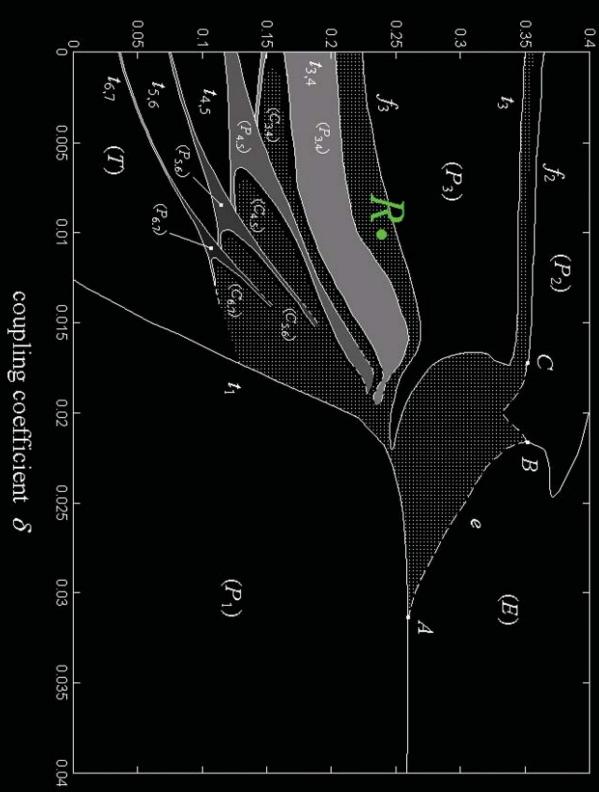




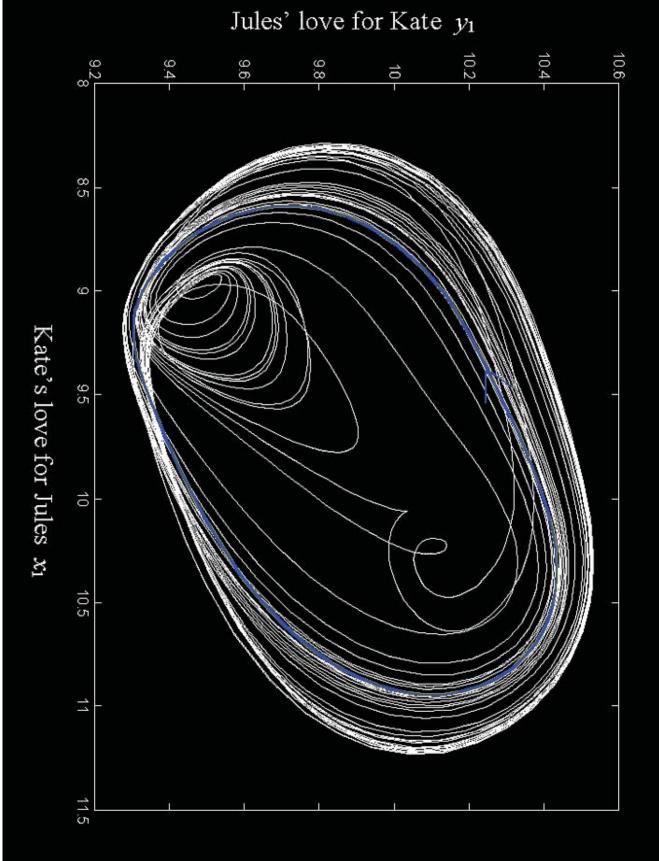
The complete model

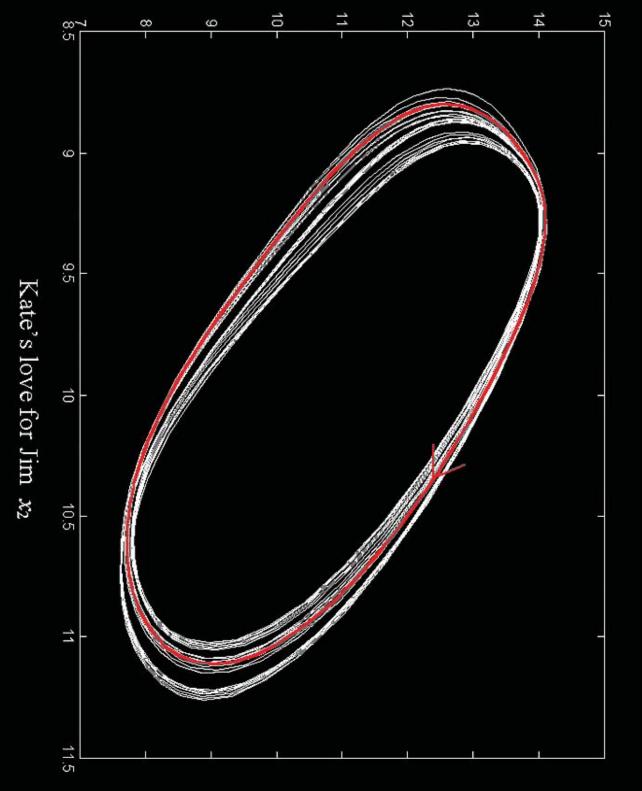
Kate does not live in separate worlds (temporary simplification) Jules is not jealous and pleased for Jim, Jim is jealous





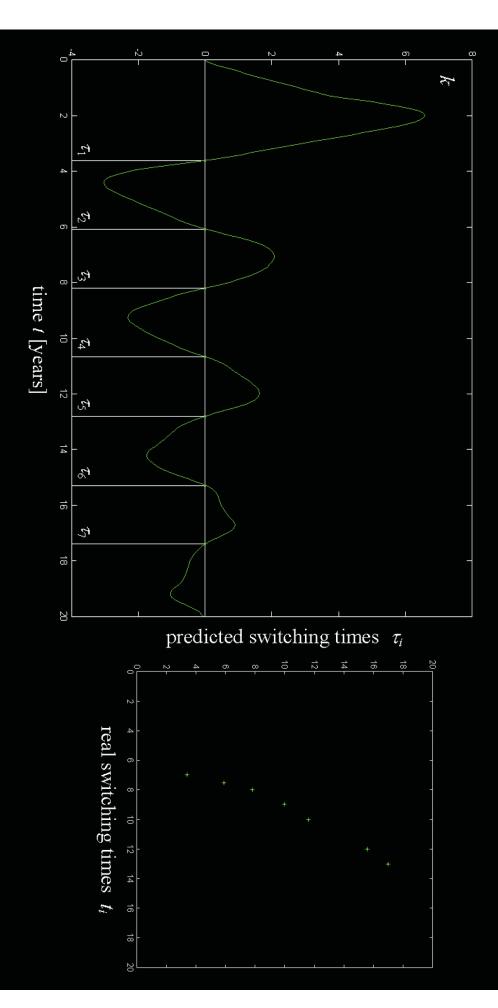
The result of the analysis





The chaotic attractor





The end

(The conjecture has been "proved")