

Index

(may be a few pages wrong because of later editing.)

3 disk 168

 approximated pruning front 213

 bifurcation family 257

 critical parameter value 207

 forbidden strings 216

 integrable limit 247

 pruning 206

 pruning front 208

 topological entropy 219, 220

 well ordered symbols 171

 corner bifurcation family 263

4 disk 173

 bifurcation family 259

 integrable limit 245

 pruning front 221

 topological entropy 222

 well ordered symbols 173

6+1 disk

 pruning 226

Biham-Wenzel method 86, 131

 convergence 133

Billiards 165

 bifurcation family 257

 integrable limit 239

 KAM islands in a Farey tree 251

 pruning 203

 singular points 203

 symbolic dynamics 167

Billiard like smooth potential 270

Bimodal map 41, 44, 65

Crisis bifurcation 26

Fredholm determinant 288

Grassberger Kantz partition 86

Gutzwiller trace formula 287

Gutzwiller-Voros zeta function 288

Harmonic 17

Hénon map 86

 area preserving 268

Logistic map 11

Lozi map 86

Markov matrix 18

Markov graphs 49

Metropolis, Stein, Stein 16

 bimodal 109

N-disk 174

N -folding maps 85

N -modal maps 41

NELSON potential 274, 278

Non-wandering set 17, 206

Primary pruned interval 22

Periodic orbit 14

Semi-classical methods 287

Smale horseshoe, 72

Smooth Hamiltonian systems 267

Stadium billiard 183

 bifurcation family 262

 Biham-Kvale symbols 186

 characteristic polynomial 197, 199

 manifolds 184

 Markov diagram 195

- pruning 228
- singular points 204
- symbolic dynamics 185
- topological entropy 197
- Størmers problem 281
- Symbolic parameter value 22
- Symbolic parameter space 48
- Symbolic value 22
- Time series 12
- Tent map 11, 255
- Topological entropy 36
- Topological parameter space 48
- Trimodal map 42, 49
- Two bouncing balls 178
 - manifolds 180
 - symbolic dynamics 183
- Turning point 89
- Turnback 89
- Unimodal 11
 - symbolic dynamics 14
 - symbolic value, unimodal 21
 - well ordered symbols 21
- Wedge billiard 177
 - bifurcation family 263
 - integrable limit 241
 - manifolds 180
 - pruning 230
 - symbolic dynamics 182
 - singular points 204
- Well ordered symbols 21
- $(x^2y^2)^{1/a}$ potential 269
- zeta function 288, 289