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This volume, which contains a selection of papers that were presented at the School in Ergodic Theory, CIRM (Marseille, France) during April 2006, explores several themes.

Dynamical properties of interval maps are studied in case of unimodal transformations and piecewise monotonic maps, but also for generalized β-shift and some Gibbs properties related to the Erdös measure, linked to the Golden Number, are investigated. In geometry, combinatorial and ergodic properties of geodesic flows are studied through a coding of such a flow on an hyperbolic surface, and an original approach of the unique ergodicity property of the directional flow on a surface translation (KMS theorem) is provided.

Rank one, mixing, self-joining transformation, and some rigidity properties, are the subject of three papers. For symbolic dynamics, low complexity is represented by the introduction of generalized Toeplitz sequences, and high disorder is involved in searching properties of measures both invariant under the shift and some cellular automata.}