

## Geodesic And Horocyclic Trajectories

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### Geodesic And Horocyclic Trajectories

Geodesic and Horocyclic Trajectories presents an introduction to the topological dynamics of two classical flows associated with surfaces of curvature -1, namely the geodesic and horocycle flows.

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Geodesic and Horocyclic Trajectories presents an introduction to the topological dynamics of two classical flows associated with surfaces of curvature ?1, namely the geodesic and horocycle flows. Written primarily with the idea of highlighting, in a relatively elementary framework, the existence of

### Geodesic and Horocyclic Trajectories | Françoise Dal'Bo ...

and to determine, for example, the existence of trajectories which are dense in the non-wandering set ? h(T1S) of this ?ow (Sects. V.2 and V.3). When the group ? is geometrically ?nite, the dynamics of the horocycle ?ow, unlike that of the geodesic ?ow, is simple since a trajectory in ? h(T1S) is either dense or periodic (Sect. V.4).

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### Geodesic And Horocyclic Trajectories

trajectory is not assumed to be a constant across the cohort (subjects). Our method involves parallel transporting the tangent vectors along each given trajectory (not necessarily a geodesic on the known data manifold) to the starting point of the respective given trajectories and then using the span of the matrix whose columns consist of ...

### A Geometric Framework for Statistical Analysis of ...

F. Dal'Bo, Geodesic and Horocyclic Trajectories. Universitext (Springer/EDP Sciences, London/Les Ulis, 2011); Translated from the 2007 French original. MR 2766419 Google Scholar [Dan78] S.G. Dani, Invariant measures of horospherical flows on noncompact homogeneous spaces. Invent. Math.

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### Geodesic and Horocyclic Trajectories - De Françoise Dal'Bo ...

Dynamics of geodesic and horocyclic ?ows BarbaraSchapira May25,2016 IRMAR, UMR CNRS 6625, Universit'e Rennes 1, Rennes France 1 Introduction These notes were written for lectures at CIRM in spring 2014, where I presented in a uni?ed way classical dynamical and ergodic properties of the horocyclic ?ow. Therefore, the writing is informal.

### Dynamics of Geodesic and Horocyclic Flows

In geometry, a geodesic ( */ ? d? i? ? ? d ? s ? k, ? d? i? o?-,? d i?-,z ? k /*) is commonly a curve representing in some sense the shortest path between two points in a surface, or more generally in a Riemannian manifold.The term also has meaning in any differentiable manifold with a connection.It is a generalization of the notion of a "straight line" to a more general setting.

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### Geodesic And Horocyclic Trajectories

In general relativity, a geodesic generalizes the notion of a "straight line" to curved spacetime.Importantly, the world line of a particle free from all external, non-gravitational forces is a particular type of geodesic. In other words, a freely moving or falling particle always moves along a geodesic. In general relativity, gravity can be regarded as not a force but a consequence of a ...

### Geodesics in general relativity - Wikipedia

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