

DOWNLOAD PDF COMPACTIFICATIONS OF SYMMETRIC AND LOCALLY SYMMETRIC SPACES (MATHEMATICS: THEORY APPLICATIONS)

Chapter 1 : Lizhen Ji's Home Page

Noncompact symmetric and locally symmetric spaces naturally appear in many mathematical theories, including analysis (representation theory, nonabelian harmonic analysis), number theory (automorphic forms), algebraic geometry (modulae) and algebraic topology (cohomology of discrete groups). In most.

An example[edit] Consider the real line with its ordinary topology. This space is not compact; in a sense, points can go off to infinity to the left or to the right. The resulting compactification can be thought of as a circle which is compact as a closed and bounded subset of the Euclidean plane. Intuitively, the process can be pictured as follows: A bit more formally: What we have constructed is called the Alexandroff one-point compactification of the real line, discussed in more generality below. Definition[edit] An embedding of a topological space X as a dense subset of a compact space is called a compactification of X . It is often useful to embed topological spaces in compact spaces, because of the special properties compact spaces have. Embeddings into compact Hausdorff spaces may be of particular interest. Since every compact Hausdorff space is a Tychonoff space, and every subspace of a Tychonoff space is Tychonoff, we conclude that any space possessing a Hausdorff compactification must be a Tychonoff space. In fact, the converse is also true; being a Tychonoff space is both necessary and sufficient for possessing a Hausdorff compactification. The fact that large and interesting classes of non-compact spaces do in fact have compactifications of particular sorts makes compactification a common technique in topology. Alexandroff one-point compactification[edit] Main article: The one-point compactification of X is Hausdorff if and only if X is Hausdorff and locally compact. A topological space has a Hausdorff compactification if and only if it is Tychonoff. Then each point in X can be identified with an evaluation function on C . Thus X can be identified with a subset of $[0,1]^C$, the space of all functions from C to $[0,1]$. For each possible "direction" in which points in \mathbb{R}^n can "escape", one new point at infinity is added but each direction is identified with its opposite. The Alexandroff one-point compactification of \mathbb{R} we constructed in the example above is in fact homeomorphic to $\mathbb{R}P^1$. Note however that the projective plane $\mathbb{R}P^2$ is not the one-point compactification of the plane \mathbb{R}^2 since more than one point is added. Complex projective space $\mathbb{C}P^n$ is also a compactification of \mathbb{C}^n ; the Alexandroff one-point compactification of the plane \mathbb{C} is homeomorphic to the complex projective line $\mathbb{C}P^1$, which in turn can be identified with a sphere, the Riemann sphere. Passing to projective space is a common tool in algebraic geometry because the added points at infinity lead to simpler formulations of many theorems. For example, any two different lines in $\mathbb{R}P^2$ intersect in precisely one point, a statement that is not true in \mathbb{R}^2 . Compactification of moduli spaces generally require allowing certain degeneracies "for example, allowing certain singularities or reducible varieties. This is notably used in the Deligne-Mumford compactification of the moduli space of algebraic curves. Compactification and discrete subgroups of Lie groups[edit] In the study of discrete subgroups of Lie groups, the quotient space of cosets is often a candidate for more subtle compactification to preserve structure at a richer level than just topological. For example, modular curves are compactified by the addition of single points for each cusp, making them Riemann surfaces and so, since they are compact, algebraic curves. Here the cusps are there for a good reason: That is all for lattices in the plane. This is harder to compactify. There are a variety of compactifications, such as the Borel-Serre compactification, the reductive Borel-Serre compactification, and the Satake compactifications, that can be formed. Other compactification theories[edit].

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