

Gap of codimension one foliations

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Depth is one of the well-known invariants of codimension one foliations. Roughly speaking, depth is a quantity which describes how far from a fiber bundle structure the foliation is. In this talk, we define an invariant for finite depth foliations, called “gap” which describes the maximal “gap” of the depths of adjacent leaves. Then for certain 3-manifolds, we give an estimation of the depth of the given foliation by using gap.

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