Topology of the leaves of hyperbolic surface laminations

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"Much is known about the topology of leaves of a foliation by surfaces. Any surface can be realized as a leaf of foliation of a compact 3-manifold, but there are strong restrictions on the topology of generic leaves. I will speak about compact spaces foliated by hyperbolic surfaces, and discuss which surfaces can coexist as leaves of such a lamination. I will present a combinatorial construction that yields minimal laminations by hyperbolic surfaces with prescribed surfaces as leaves, with a precise control of the topology of the surfaces that appear. These examples embed in $CP(3)$, but some of them exhibit a combination of leaves which cannot occur in codimension one. This is joint work with J. Brum, M. Martínez and R. Potrie."

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