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The Teichmuller space of conformal pentagons

I will discuss about the space of Jordan domains with 5 points marked along their boundary up to conformal equivalence. The Teichmuller metric on this space is complete and uniquely geodesic, yet its balls are not necessarily convex. However, the space is exhausted by compact convex sets. In particular, the convex hull of any finite set is compact. Whether this holds for Teichmuller spaces in general is an open question of H. Masur.