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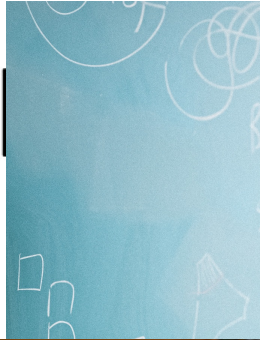


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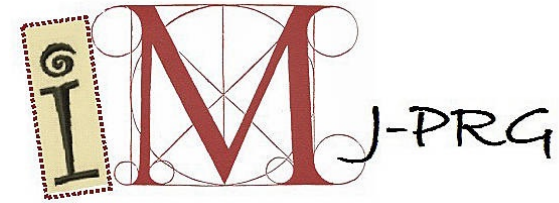
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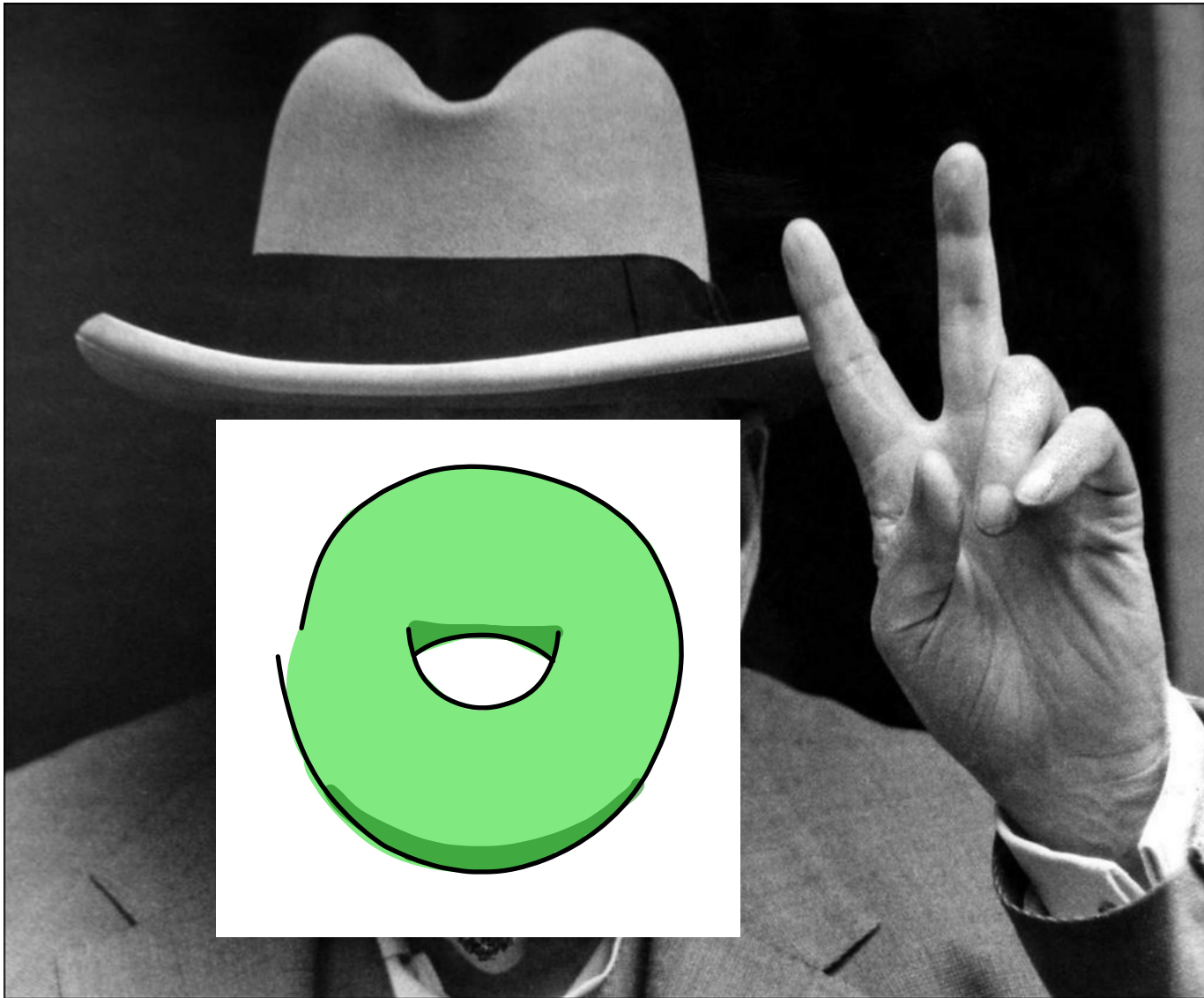


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FRONTIERS IN NUMBER THEORY, PHYSICS, AND GEOMETRY VOL.I,
P. Cartier; B. Julia; P. Moussa; P. Vanhove (Editors),
Springer Verlag, 2006.

Flat Surfaces

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Summary. Various problems of geometry, topology and dynamical systems on surfaces as well as some questions concerning one-dimensional dynamical systems lead to the study of closed surfaces endowed with a flat metric with several cone-type singularities. Such flat surfaces are naturally organized into families which appear to be isomorphic to moduli spaces of holomorphic one-forms.

One can obtain much information about the geometry and dynamics of an individual flat surface by studying both its orbit under the Teichmüller geodesic flow and under the linear group action. In particular, the Teichmüller geodesic flow plays the role of a time acceleration machine (renormalization procedure) which allows to study the asymptotic behavior of interval exchange transformations and of surface foliations.

This survey is an attempt to present some selected ideas, concepts and facts in Teichmüller dynamics in a playful way.

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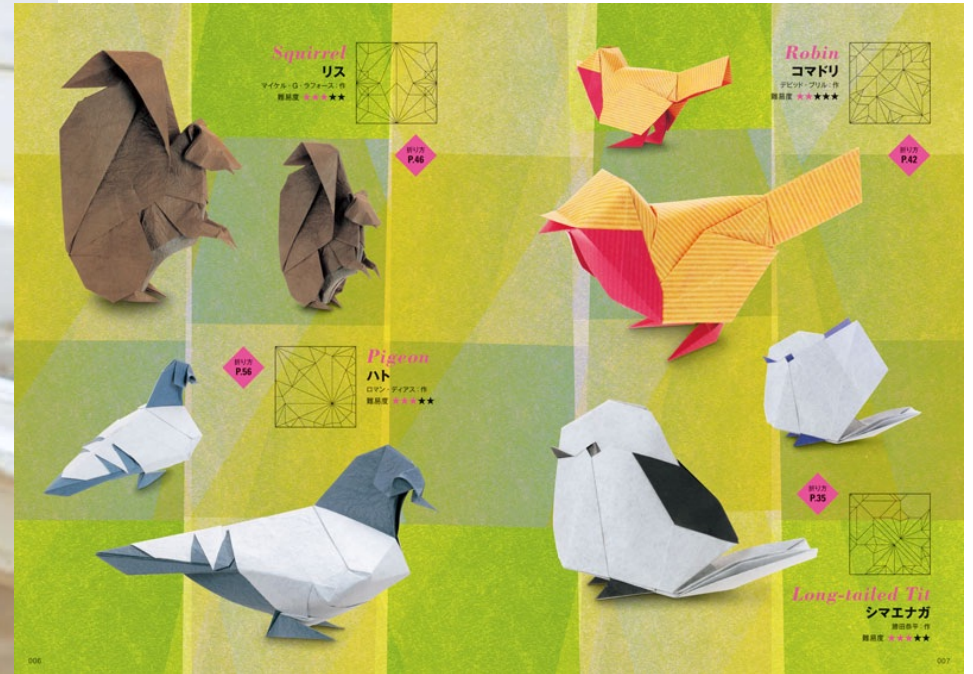
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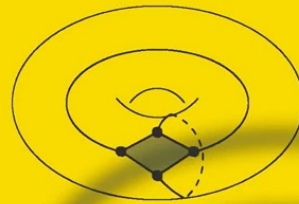
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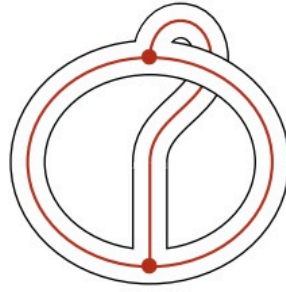
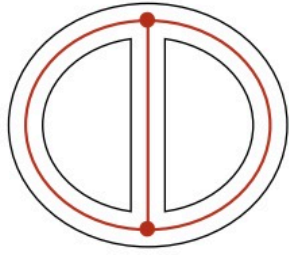
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Graphs on Surfaces and Their Applications



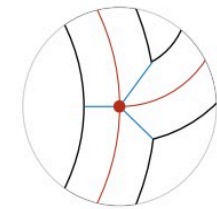
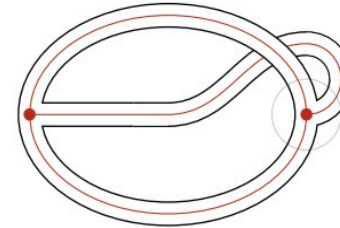
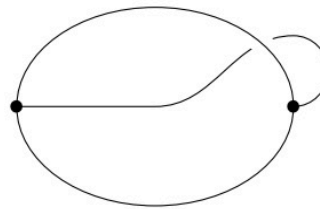
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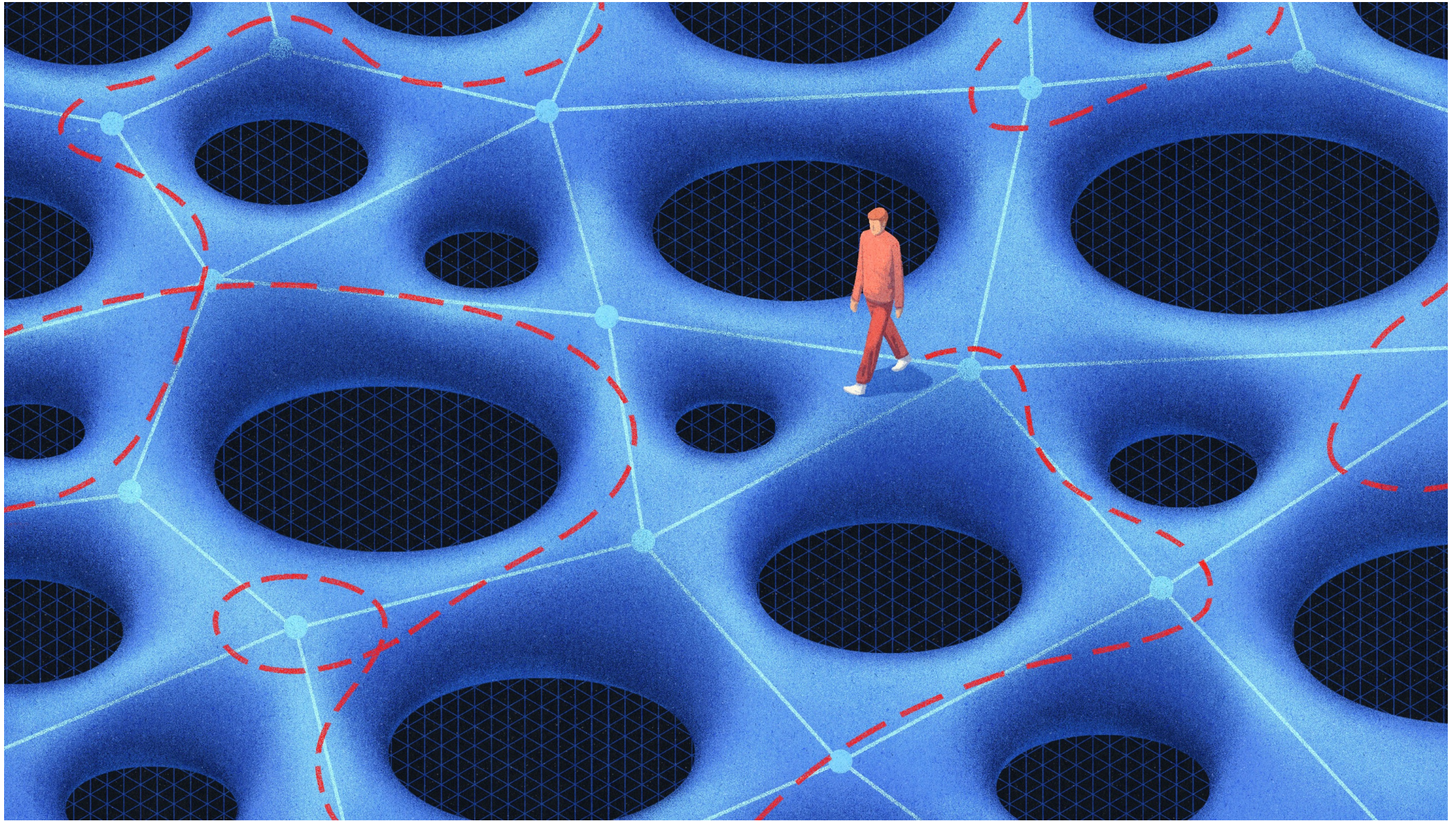
A ribbon graph of genus 0 with 3 faces (left) and a ribbon graph of genus 1 with 1 face (right).

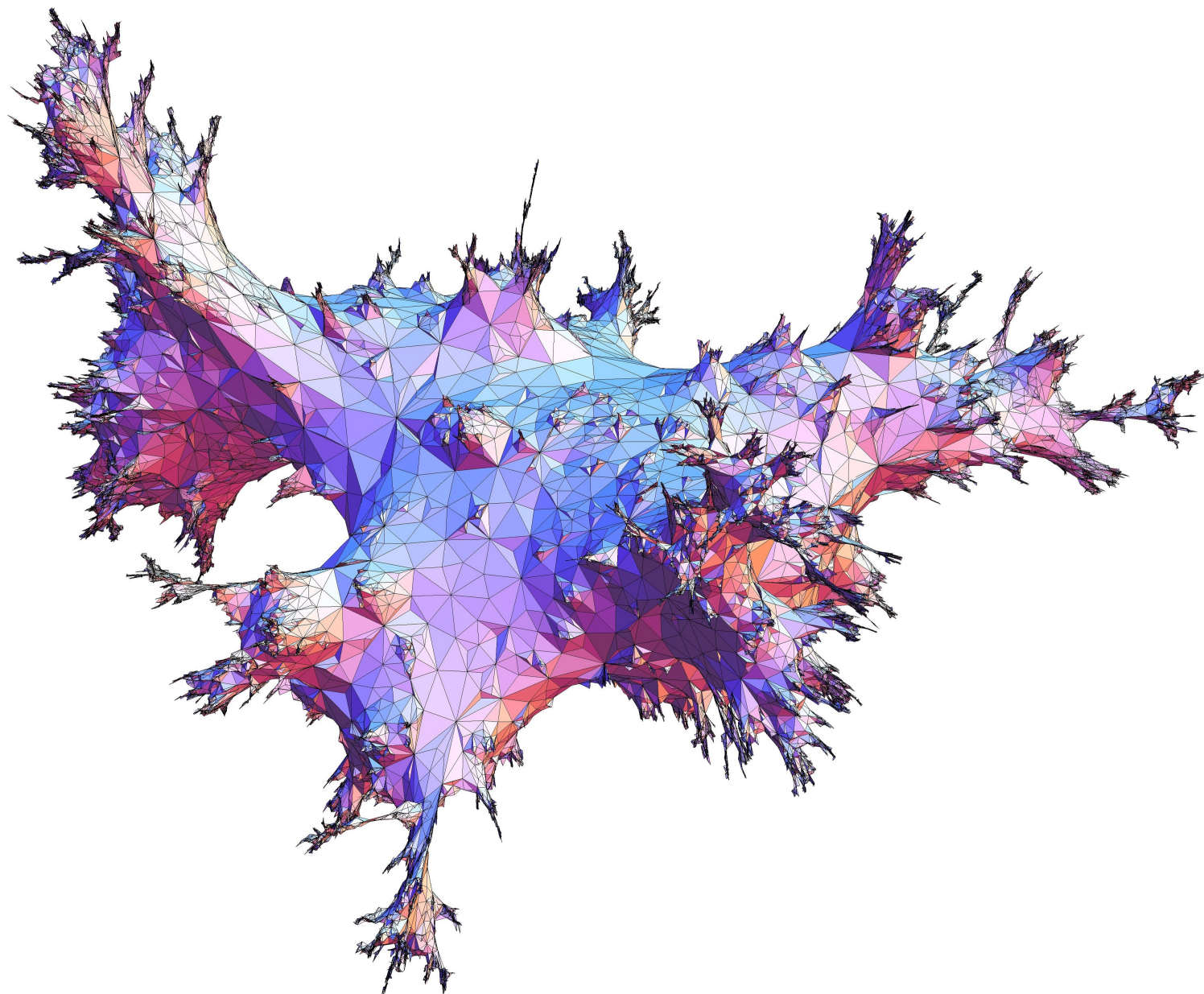
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Graphs on Surfaces and Their Applications



The geometric realisation of a graph Γ (left), of a metric ribbon graph G (center), and of a metric ribbon graph G embedded into a larger metric ribbon graph $|G|$ (right). In red we draw G embedded into $|G|$ and the segments along which G is embedded are depicted in blue.







Rolling eye city

Thank you!

 merci!