

Factorization

Reimundo Heluani¹

¹ IMPA

I'll describe some aspects of factorization structures in geometry and representation theory. Will try to introduce the audience to what factorization spaces over the configuration space of points in Riemann surfaces are as well as their linearized versions: factorization algebras and chiral algebras are. Will mention new cohomological invariants of Riemann surfaces and their moduli spaces and hint on how to compute them in the case of elliptic curves if times is on our side.