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Hyperbolic $\mathrm{Out}(Fn)$-graphs and their boundaries

The Outer automorphism group $\mathrm{Out}(F_n)$ of a free group F_n with n generators acts on three different hyperbolic graphs. These are the free factor graph, the cyclic splitting graph and the free splitting graph.

We explain the structure of these graphs and discuss their Gromov boundaries. We also give some application towards an understanding of the geometry of $\mathrm{Out}(F_n)$.