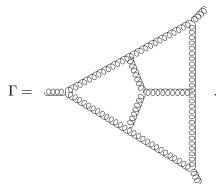
## 

DYSON SCHWINGER EQUATIONS (KREIMER, SUMMER '13)

## Consider the graph



- 1. What is the Hochschild 1-cocycle  $B_+^x$  which generates it? What is/are the graph(s) x? Symmetry-factor of x?
- 2. How many maximal forests? How many insertion places does the above x allow? What is  $\Gamma/x$ ? How many non-trivial ways to permute its external edges?