

## COMBINATORICS ON WORDS

EXAM TOPICS 2017/2018

- (1) Characterization of commuting and conjugate words
- (2) Periodicity lemma
- (3) Critical Factorization Theorem
- (4) Theorem of Lyndon and Schützenberger
- (5) Existence and uniqueness of the Lyndon factorization
- (6) Basis of a an F-semigroup and the existence of the free hull
- (7) Graph lemma
- (8) Principal solution and its uniqueness