Alexandr Kazda* (alex.kazda@gmail.com). How to decide absorption. Preliminary report. While studying the complexity of the Constraint Satisfaction Problem, Libor Barto and Marcin Kozik discovered the idea of absorption. If $B \leq A$ and B absorbs A, then many kinds of connectivity properties of A are also true for B. This is very useful for proofs by induction, and absorption has since played a role in several purely algebraic situations.

After giving a taste of how absorption works, we would like to talk about our current project (with Libor Barto): How to algorithmically decide, given an algebra A with finitely many basic operations and a $B \le A$, if B absorbs A. (Received August 08, 2013)