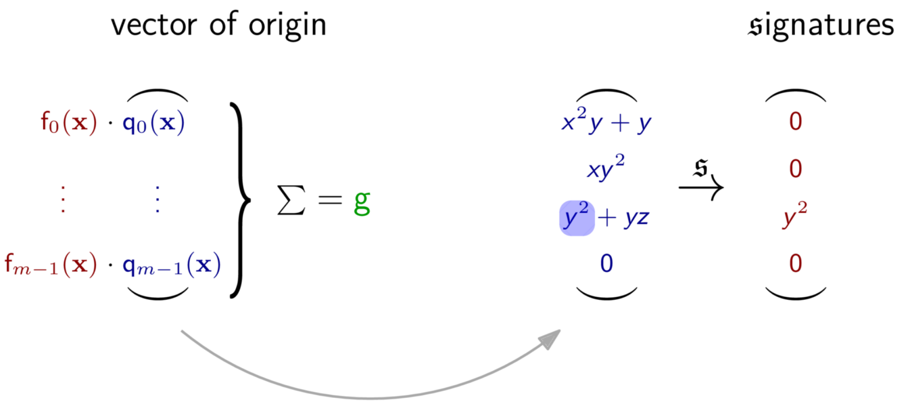
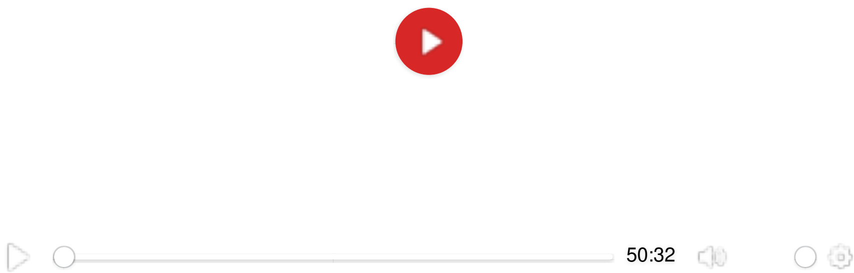
AOC Presentation

F5 – Gröbner bases using signatures

by Jan Ferdinand Sauer Nov 20, 2020 0 Comment



One of the biggest milestones regarding Gröbner basis computation was the introduction of F_5 due to Jean-Charles Faugère. In this video, I motivate how F_5 improves on F_4, introduce the concepts used in F_5, and present the core algorithm step by step.



There is a lot more to be said regarding signature based Gröbner basis algorithms. For example, thanks to F_5, we have a better understanding of the complexity of Gröbner basis computations. Stay tuned for upcoming posts!

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