## An Informal Introduction to Secondary Calculus (Indispensability of Secondary Calculus) Alexandre Vinogradov

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- 1. From the observation mechanism in classical physics toward commutative algebra.
- 2. Differential calculus as an aspect of commutative algebra.
- 3. Representation of differential operators, jets and differential equations.
- 4. Differential equations are difficties.
- 5. Calculus on difficties and secondary calculus.
- The course will be illustrated and motivated by examples from mechanics and physics and variuos applications will be shown.

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