

FORMAL RECONSTRUCTION OF THE ASSERTORIC SYLLOGISTIC OF
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In Aristotelian and traditional syllogistics the propositions of types **a**, **i**, **e**, **o** are considered as basic. The famous Russian logician N. A. Vasiliev in his article "On Particular Statements, Triangle of Oppositions and the Law of Excluded Fourth" proposed to found the logic of syllogistic type on the ground of three kinds of propositions: **a**, **e** and the so-called *accidental* propositions "Only some (not all) *S* are *P*". The last kind of proposition will be denoted as **t**.

V. A. Smirnov [1989] made the first attempt to formalize Vasiliev's syllogistic. He set out the axiomatic system **C2V** in the language, where elementary formulas are of the types: **SaP** ("Every *S* is *P*"), **SeP** («Every *S* is not *P*») and **StP** («Only some *S* are *P*»), and complex formulas are composed by means of propositional connectives. **C2V** axiom schemes are:

A0. Axiom schemes of classical propositional calculus,

A1. $(MaP \ \& \ SaM) \supset SaP,$

A2. $(MeP \ \& \ SaM) \supset SeP,$

A3. $SeP \supset PeS,$

A4. $\neg(SaP \ \& \ SeP),$