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## High-order net-proton cumulants and the event volume definition in A+A collisions at NICA energies.

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G. Feofilov, St. Petersburg State University, St. Petersburg, RF  
E-mail: g.feofilov@spbu.ru

Thermodynamic predictions [1] have indicated that the non-Gaussian fluctuations of the event-by-event observables. However, the non-dynamical, trivial volume fluctuations of protons and net-protons could dominate over the dynamical ones.

We propose in this report the procedure to use, in the analysis of A+A collisions at NICA, the event-by-event volume definition.

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**Author:** FEOFILOV, Grigory (Saint-Petersburg State University)

**Presenter:** FEOFILOV, Grigory (Saint-Petersburg State University)

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