

Conversations with Staś on physics and other stuff

Dubna times (1984-1986)

In Kielce (from 1996)

Physics: one example

Privately



Staś in Dubna

- ✿ Laboratory of High Energies (experiment !)
- ✿ Gaździcki-Mrówczyński collaboration
- ✿ wide range of interest: experiment → theory
- ✿ PhD in ITP Kiev (1985) → theory !
- ✿ our friend L.L. Nemenov → egzotic atoms
- ✿ community (Mrówczyński, Gaździcki, Dominik, Wiślicki, Kowalski)
- ✿ social life (families, meetings, Volga river)

Staś in Dubna - photos



Staś in Kielce

- ✿ Joins Institute of Physics in 1996
- ✿ New experience and fun with teaching !
- ✿ Deputy director for research for many years
- ✿ Scientific growth of the Institute
- ✿ Group of High Energy Physics (exp+theory)
- ✿ Growing team (Mrówczyński, Gaździcki, Seyboth, Florkowski, Broniowski, Giacosa)
- ✿ Workshop on Relativistic Heavy Ion Collisions

Staś in Kielce - photos

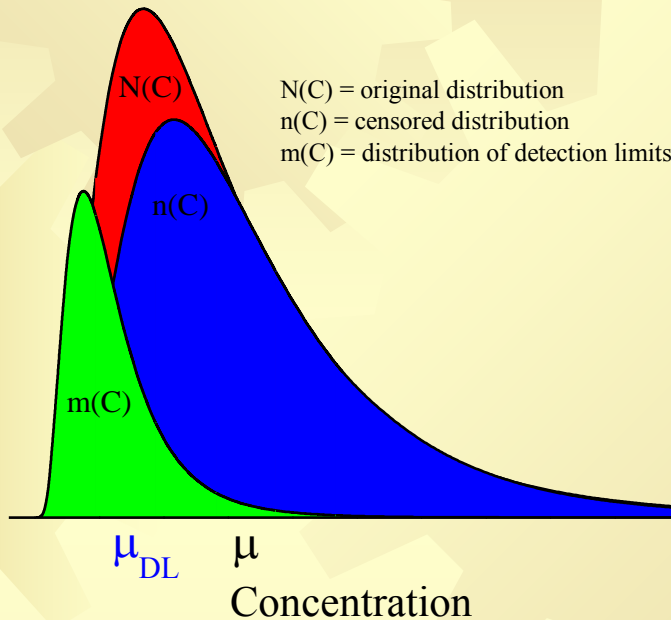


12th Workshop on Relativistic Heavy Ion Collisions, November 4-6, Kielce, Poland

Physics: one example

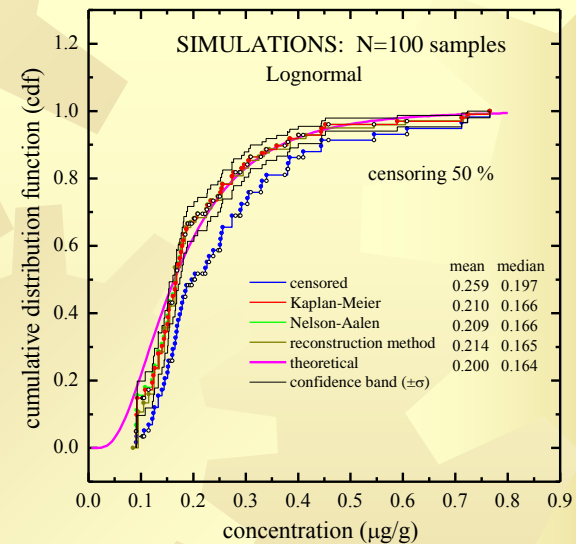
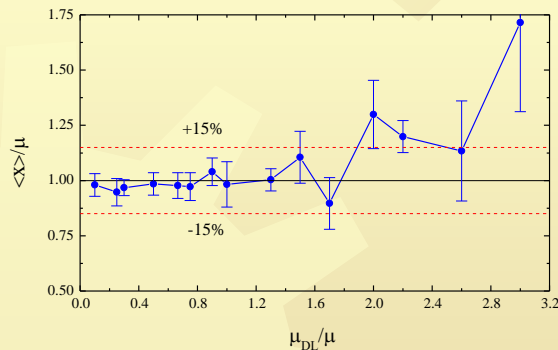
- ★ Broad range of interests (tachyons, relativistic nuclear collisions, plasmas, diffusion, censoring...)
- ★ Two common papers on censoring
- ★ Problem: How to include the nondetects in for random detection limits ? (trace elements by x-rays)
- ★ Surprisingly efficient and accurate solution found (say: 5% accuracy for 50% censoring !)
- ★ Statistical interpretation: random left censoring → Kaplan-Meier estimator (the most cited paper in mathematics!) widely used in life-time testing in medicine → first application in x-ray spectroscopy

Physics: description of censoring

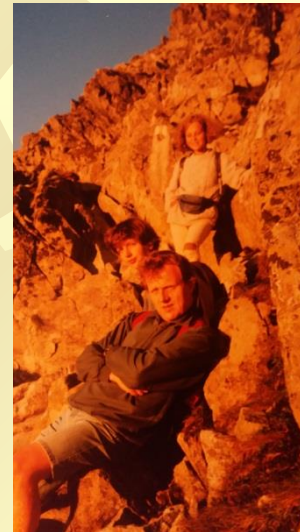


$$\frac{N(C)}{N} = \frac{n(C)}{F(C)} \cdot \exp\left[-\int_C^{\infty} \frac{n(C')}{F(C')} dC'\right]$$

$$F(C) = \int_0^C [n(C') + m(C')] dC'$$



Privately – some photos



The background features a light yellow to white gradient with several large, semi-transparent gear shapes scattered across it. On the far left, there is a vertical strip with a colorful, abstract, and somewhat pixelated pattern in shades of red, orange, purple, and blue.

**All the best to Staś
for his 60th birthday !**