

VERBAL ISSUE OF THE JOURNAL
“USPEKHI FIZICHESKIKH NAUK”

Special Conference of the Editorial Board of the journal
“Uspekhi Fizicheskikh Nauk”

To the 90th anniversary
of Vitalii Lazarevich Ginzburg

3 October 2006

P N Lebedev Physics Institute, Russian Academy of Sciences

Session I

1. **Fortov V E** “Phase transitions in a strongly nonideal plasma.”
2. **Smirnov B M** “Clusters and phase transition.”
3. **Rudenko O V** “Nonlinear waves: some biomedical applications (on item 11 of V L Ginzburg’s list).”
4. **Kulipanov G N** “Invention of undulators by V L Ginzburg and their role in modern synchrotron radiation sources and free-electron lasers.”

Session II

5. **Denisov S P** “Transition radiation: scientific significance and practical application in high-energy physics.”
6. **Okun’ L B** “Mirror particles and mirror matter: 50 years of quest and hypotheses.”
7. **Rubakov V A** “Hierarchy of fundamental constants (on items 16, 17, and 27 of V L Ginzburg’s list).”
8. **Menskii M B** “Quantum measurements, the phenomenon of life, and the arrow of time: interrelation between the three great problems (according to V L Ginzburg’s nomenclature).”

The reports are listed in the order the subjects appeared in the list of physical problems from V L Ginzburg’s Nobel Lecture (see <http://www.ufn.ru/archive/russian/abstracts/abst3433.html>)
The Conference materials will be posted on the UFN site <http://www.ufn.ru> and be published in future issue of *Physics–Uspekhi*



The Editorial Board and the Staff Members of the journal “Uspekhi Fizicheskikh Nauk”
congratulate **Vitalii Lazarevich Ginzburg** with the remarkable jubilee!

PHYSICS- USPEKHI

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