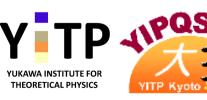
Closing Remarks

International Symposium on Neutron star matter in view of nuclear experiments and astronomical observations

October 25, 2013, YITP, Kyoto, Japan http://lambda.phys.tohoku.ac.jp/nstar/symposium/2013.html

Akira Ohnishi (YITP, Kyoto U.)











Symposium Hosts

Yukawa Institute for Theoretical Physics, Kyoto University Yukawa International Program for Quark-hadron Sciences







Grant-in-Aid for Scientific Research on Innovative Areas, "Nuclear Matter in Neutron Stars Investigated by Experiments and Astronomical Observations" 2012-2016, headed by H. Tamura (Tohoku U.)



This one-day symposium was held as part of YITP long-term workshop on Supernovae and Gamma-Ray Bursts



Supernovae and Gamma-Ray Bursts

1st & 2nd weeks: Workshop on Supernova explosion & Nuclear matter EOS

One-day symposium on Neutron Star Matter EOS

- 3rd week: Conference on Supernova explosion
- 4th week: Workshop on Gamma-ray bursts
- 5th week: Conference on Gamma-ray bursts

Sorry for a short notice → participants

Thank you for allowing us to use one-day of the workshop

→ SNGRB LOC

Grant-in-Aid Study of Neutron Star Matter

High ρ (Group A)

Hypernuclei, Kaonic nuclei
YN & YY int.,

Eff. Interaction

(Heavy-ion collisions)



Asym. nuclear matter +elec.+µ

Nuclei+neutron gas+elec.

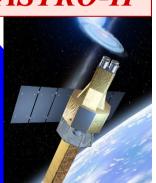
Nuclei + elec.



Low p (Group B)

NS Obs. (Group C)

Radius, Mass, Temp. (Cooling), Star quake, Pasta



Sym. E, Pairing gap, BEC-BEC cross over, Cold atom, Unitary gas





Theory (Group D)





Program of the symposium

Session 1: Opening / X-ray observations S. Nagataki, R. Rutledge, T. Dotani, T. Enoto

Session 2: Neutron star structure

J. Novak, K. Kiuchi, H. Sotani

NS Obs. (Group C)

Session 3: Strangeness and quarks in Neutron Stars T. Nagae, T. Harada, Y. Yamamoto, K. Masuda

High ρ (Group A)

Session 4: Symmetry energy / Related topics of NS / Closing T. Murakami, H. Sagawa, M. Tachibana, A. Ohnishi

Low p
(Group B)

Theory (Group D)

I hope all of you enjoyed the discussion in this symposium, and the symposium made the physics of NS matter a step forward.

Laser cooled ⁶Li atoms

Thank you!

I would like to thank

- All the speakers and participants!
- Organizers
 - H. Sotani (YITP, chair), [A. Ohnishi (YITP, secretary),]
 - S. Nagataki (RIKEN), Y. Suwa (YITP), T. Murakami (Kyoto),
 - Y. Togano (Tokyo Institute of Technology), T. Takahashi (KEK),
 - K. Tsubakihara (Osaka Electro-Comm Univ.),
 - T. Tamagawa (RIKEN), T. Harada (Osaka Electro-Comm Univ.)
- Secretary: Y. Yagi (YITP)