Good morning, ladies & gentlemen



Welcome all to the



Hiro Ejiri,

President, Yamada science foundation

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Η ΑΛΗΘΕΙΑ ΕΛΕΨΘΕΡΩΣΕΙ ΨΜΑΣ

真理が我等と自由にする

山田科学振興財団は、

自然科学の基礎研究を助成振興し、もって我が国の科学研究の向上発展と人類の 福祉に寄与することを目的としています。

山田科学振興財団 40周年記念

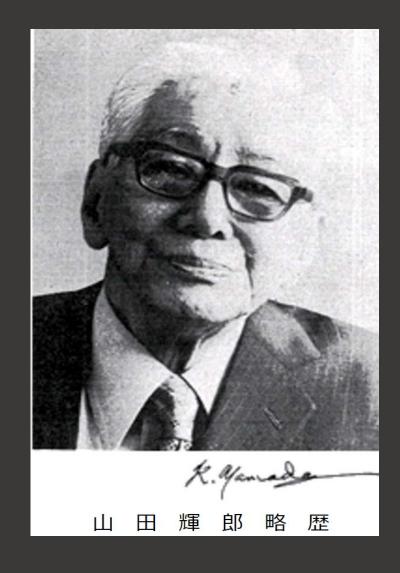
This is the symposium supported by YSF on the occasion of the 40 th anniversary.

It is my great pleasure to give an opening address on this symposium.

YSF, established by

the Roto
Pharmaceutical
Company KK

President, K. Yamada on the basis of his personal funds.



to promote pure science research.

YSF programs include the followings.



- A. Basic science research projects
- B. Int. conferences/symposia/workshops
- C. Overseas exchange of young scientists with emphasis on original ideas and challenges to develop science frontiers.

This symposium is just what we would like and be pleased to extend our support for.

We were very lucky to be attracted by the two strong magnets in Japan

One is Prof. S. Kaya, later President, in Univ. Tokyo, the experimentalist.
I learned magnets here in 1956

The other, Prof. Kanamori in 1970 The theoretist of magnets.

Prof. J. Kanamori, the well known condenced matter theoretist.



I, particle physics exp., had learned and enjoyed discussions with Prof. Kanamori since 1970, Prof., Dean, and president of Osaka Univ, Director of Int. Inst. Advanced Study, President of YSF (2009-2011).

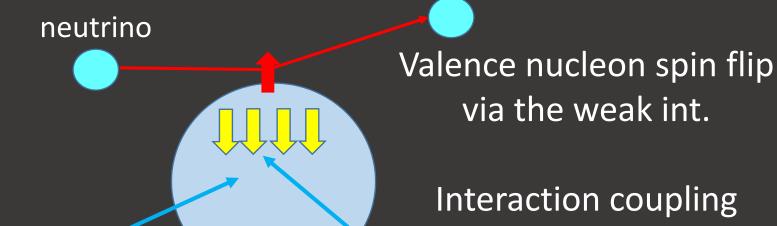
He had attracted all N & S type scientists, and shows always a right way to go since he has a dipole N&S strong magnet.

Subjects discussed here are strongly related with activities by Prof. J. Kanamori

A. Magnetism to Magnets, B. Quantum Spin Systems C. Spintronics

These are the subjects of frontiers of the fields, interdisciplinary activities & new developments, which are what Yamada science Foundation would like to appreciate and encourage.

Comments from neutrino/particle physics.



Nucleus made of 100 strongly interacting nucleons in a femto (10⁻¹⁵m) sphere

due to nuclear int. core spin polarizations

 $g_s = 1/(1+\chi)$

 χ =spin susceptibility

CNNP conference 2017 Catannia H. Ejiri

