



Hitoshi's vision and passion: from diversity to international peace

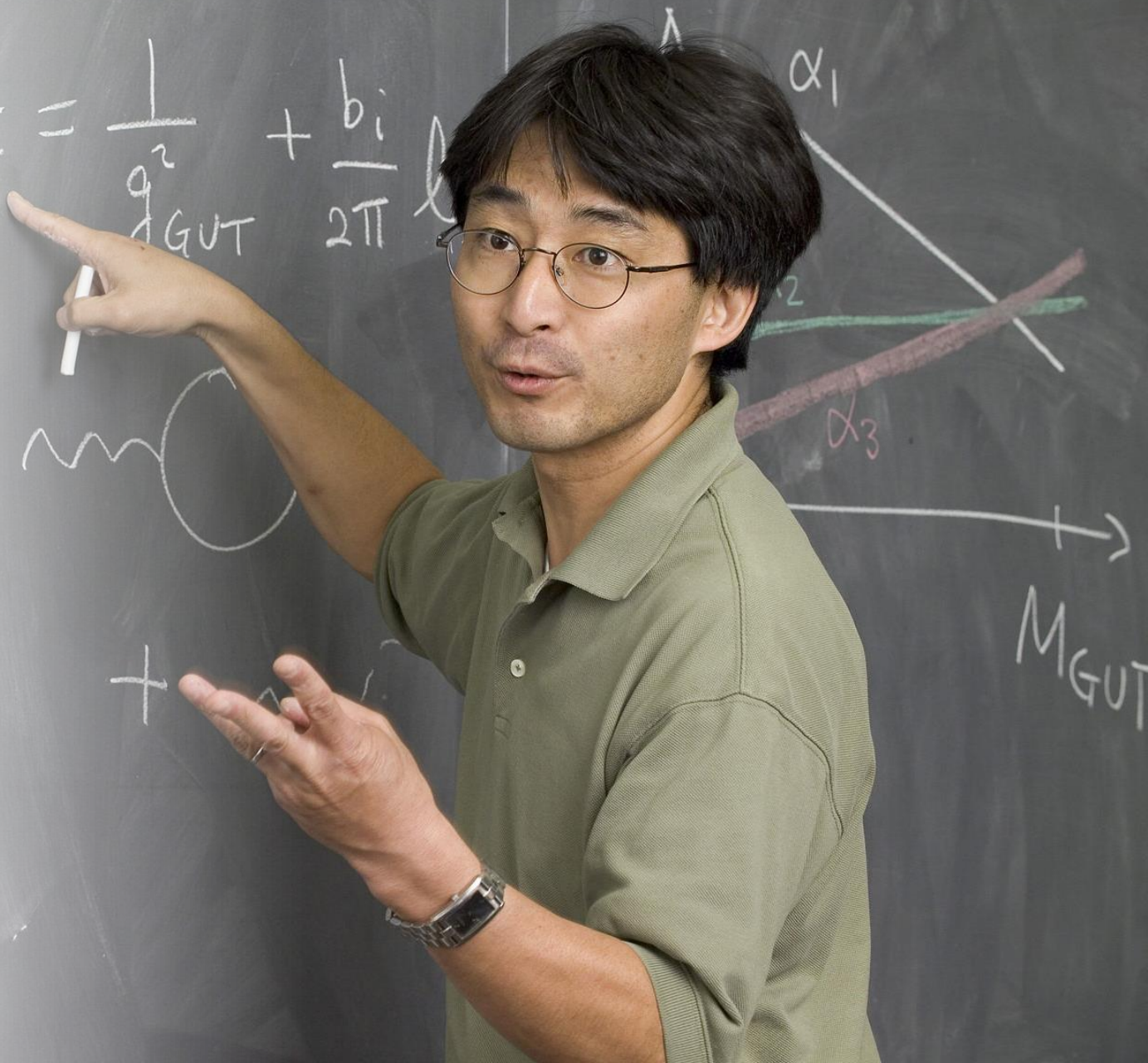
Hiromi Yokoyama



About 20 years ago...



$$\frac{1}{g_i} = \frac{1}{g_{GUT}} + \frac{b_i}{2\pi}$$



NHK ACADEMIA

E 水曜 夜10:30

過去の講義動画 WEBで一挙公開中

NHKアカデミア

各界のトップランナーたちが“今こそ、共有したい”を語り尽くす

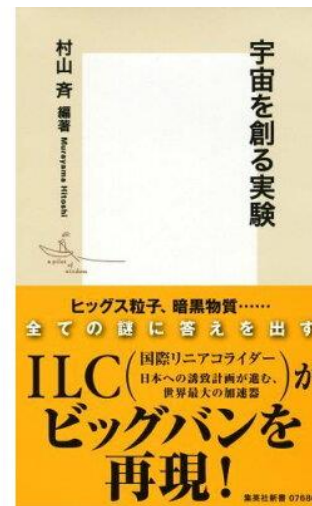
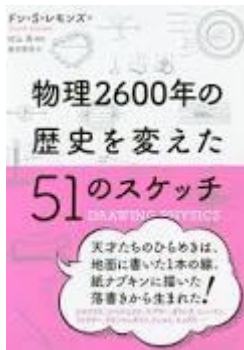
共有

概要 放送予定 テキスト 動画 過去のエピソード

NHK ACADEMIA

“ゆるぎない知性”との出会い

村山 斉 さん
(宇宙物理学者)



NHK 文化と科学の共通点とは?

北野 武 × 村山 斉

スイッチインタビュー

北野 武が物理学者の村山 斉と対談！異分野をひた走る2人の共通点とは？

公開:2024年9月20日(金)午後3:00 | 更新:2024年10月1日(火)午後0:44

Kavli IPMU Director Hitoshi Murayama Gives Speech at UN Headquarters

Kavli Institute for the Physics and Mathematics

October 27, 2014

Date of activity: October 20, 2014

Director Hitoshi Murayama of the [Kavli Institute for the Physics and Mathematics of the Universe](#) gave a speech at the United Nations Headquarters in New York City on October 20th (Mon). His speech was part of the "[Science for Peace and Development](#)" event, which was organized by the President of the [United Nations Economic and Social Council \(ECOSOC\)](#), co-sponsored by the Permanent Missions of Switzerland and France, and was also one of the events held to celebrate the [60th anniversary of the European Organization for Nuclear Research \(CERN\)](#).

Director Murayama said "I firmly believe that basic scientific research is a true peacemaker for humankind." He used examples of [CERN](#), that brought together scientists from nations in the midst of the Cold War or even active wars and let them work peacefully, and [SESAME](#), a light source in Jordan being constructed by the collaboration of Israel, Iran, the Palestinian Authority and other nations. He emphasized that the basic scientific research, such as solving the mysteries of the Universe, is a common goal for the humankind, and "The awe of the beautiful universe makes differences in cultures, languages, colors, genders, religions, and ideologies simply disappear."

This event was opened by Mr. Ban Ki-moon, Secretary-General of the United Nations. Director Murayama spoke following speeches by Mr. Kofi Annan, former Secretary-General of the United Nations, and Professor Carlo Rubbia, Nobel Laureate in Physics. To view the full text of the speech, please use [this link](#).

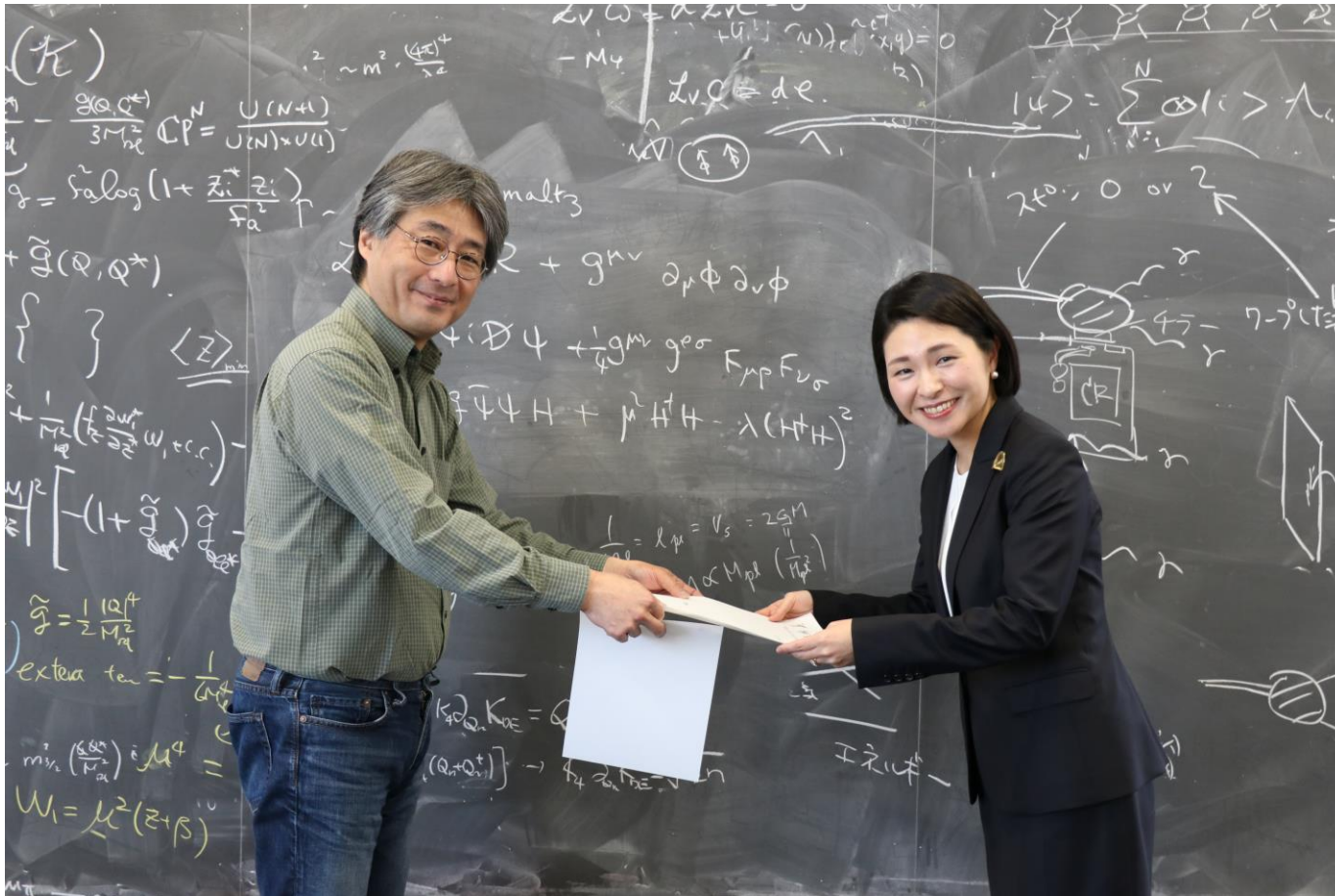


Director Murayama speaking



Picture of the chamber during the event

2017-



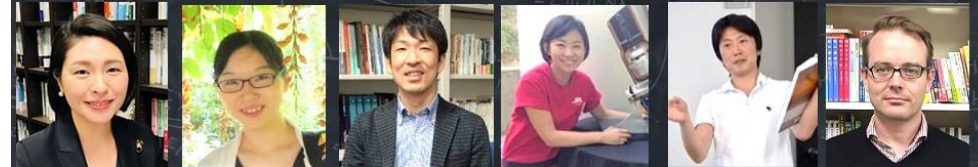
HOME

KAVLI INSTITUTE FOR THE PHYSICS AND MATHEMATICS OF THE UNIVERSE

RISTEX 社会技術研究開発センター
Research Institute of Science and Technology for Society

数物系女子はなぜ少ないのか

～社会規範・イメージ・文化によるジェンダーバイアス～
「多様なイノベーションを支える女子生徒数物系進学要因分析」プロジェクト
JST-Ristex 科学技術イノベーション政策のための科学 2017.9-2020.9(21.3)



横山広美 (東京大学国際高等研究所カブリ数物連携宇宙研究機構: Kavli IPMU)

一方井祐子 (Kavli IPMU)

井上敦 (NIRA 総合研究開発機構)

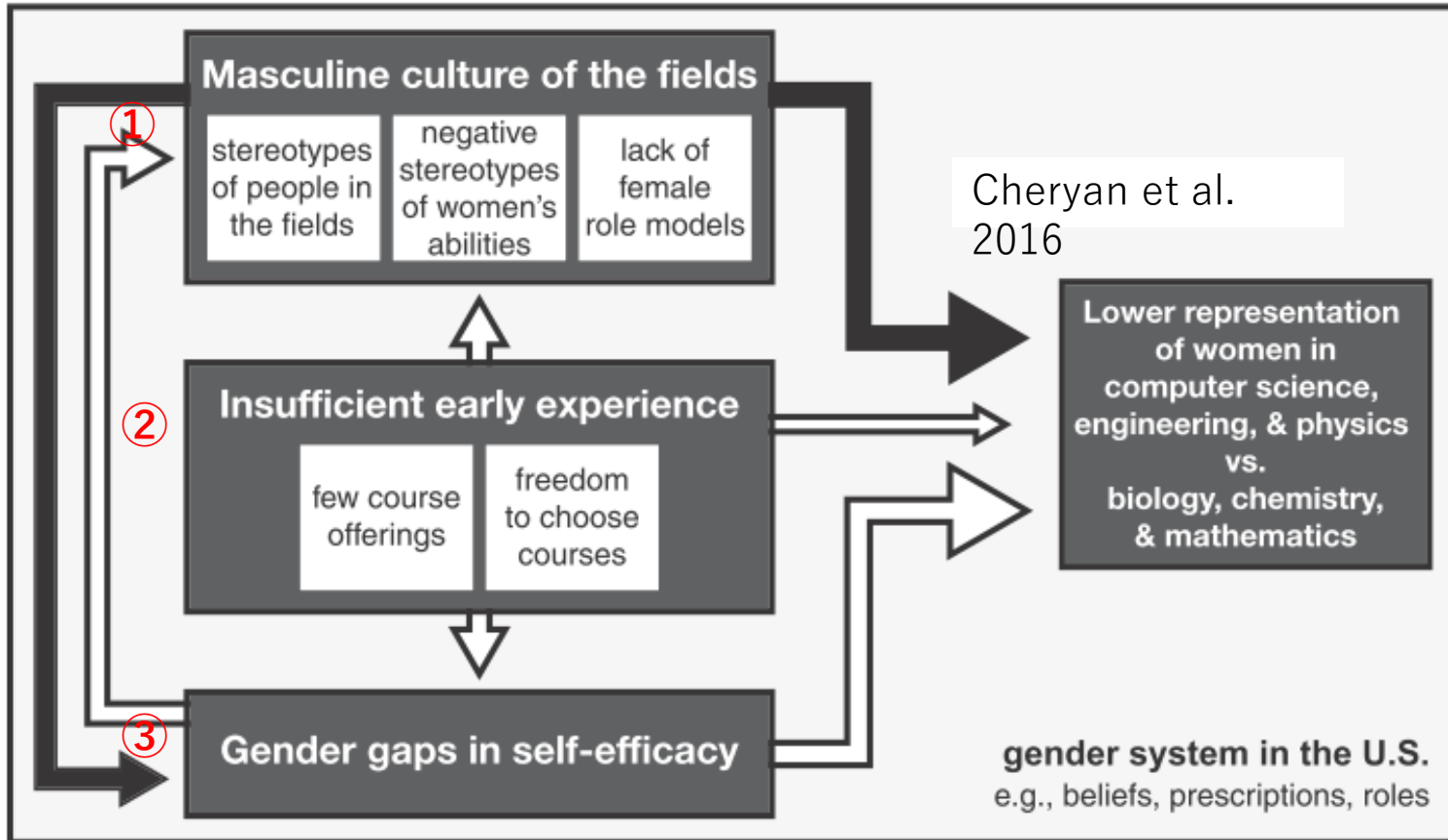
南崎梓 (名古屋大学素粒子宇宙起源研究機構: KMI)

加納圭 (滋賀大学 教育学部)

ユアン・マッカイ (東京大学広報戦略本部)



STEM women studies



Cheryan et al. 2016

④
New!

+Social Climate

Gender equalities items

1. Hiromi M. Yokoyama, Yuko Ikkatai, Euan McKay, Atsushi Inoue, Azusa Minamizaki & Kei Kano (2024) Can affirmative action overcome STEM gender inequality in Japan? Expectations and concerns, *Asia Pacific Business Review*, DOI: [10.1080/13602381.2024.2320547](https://doi.org/10.1080/13602381.2024.2320547)

2. Ikkatai, Y., Inoue, A., Minamizaki, A., Kano, K., McKay, E., & Yokoyama, H. M. (2021 c). Effect of providing gender equality information on students' motivations to choose STEM. *PLoS ONE*, 16(6), e0252710. <https://doi.org/10.1371/journal.pone.0252710>

3. 井上敦・一方井祐子・南崎梓・加納圭・マツカイユアン・横山広美 (2021 b) 高校生のジェンダーステレオタイプと理工系への進路選択意識. *科学技術社会論研究* 19, 64-78.

5. 一方井祐子・井上敦・南崎梓・加納圭・マツカイユアン・横山広美 (2021) STEM分野に必要とされる能力のジェンダーイメージ: 日本とイギリスの比較研究. *科学技術社会論研究* 19, 79-95.

5. Ikkatai, Y., Inoue, A., Minamizaki, A., Kano, K., McKay, E., & Yokoyama, H. M. (2021 a). Masculinity in the public image of physics and mathematics: A new model comparing Japan and England. *Public Understanding of Science*. <https://doi.org/10.1177/09636625211002375>

6. Ikkatai, Y., Inoue, A., Kano, K., Minamizaki, A., McKay, E., & Yokoyama, H. M. (2021). Factors related to girls' choice of physics for university entrance exams in Japan. *Physical Review Physics Education Research*, 17(1), 010141. <https://link.aps.org/doi/10.1103/PhysRevPhysEducRes.17.010141>

7. Ikkatai, Y., Minamizaki, A., Kano, K., Inoue, A., McKay, E., & Yokoyama, H. M. (2020). Masculine public image of six scientific fields in Japan: physics, chemistry, mechanical engineering, information science, mathematics, and biology. *Journal of Science Communication*, 19(6), A02. <https://doi.org/10.22323/2.19060202>.

8. Ikkatai, Y., Minamizaki, A., Kano, K., Inoue, A., McKay, E., & Yokoyama, H. M. (2020). Gender-biased public perception of STEM fields, focusing on the influence of egalitarian attitudes toward gender roles. *Journal of Science Communication*, 19(1), A08. <https://doi.org/10.22323/2.19010208>.

9. Ikkatai, Y., Inoue, A., Kano, K., Minamizaki, A., McKay, E., & Yokoyama, H. M. (2019). Parental egalitarian attitudes towards gender roles affect agreement on girls taking STEM fields at university in Japan. *International Journal of Science Education*, 41(16), 2254-2270. <https://doi.org/10.1080/09500693.2019.1671635>

10. 井上敦 (2019) 親の数学のジェンダーステレオタイプと娘の自然科学専攻. *日本科学教育学会第43回年会論文集*, 9-12.

Ikkatai, Y., Inoue, A., Minamizaki, A., Kano, K., McKay, E., & Yokoyama, H. M. (2021). New model of the public image of masculinity in physics and mathematics tested in Japan and England. *Public understanding of science*

CORRESPONDENCE | 11 July 2023

Large language model is a flagship for Japan

By Shotaro Kinoshita & Hiromi Yokoyama



A group in Japan is developing a language model specifically for Japanese speakers. The project is part of the country's still relatively permissive regulatory environment for AI training.

Viewpoint | Published: 04 March 2024

Generative AI and science communication in the physical sciences

Sibusiso Biyela, Kanta Dihal, Katy Ilonka Gero, Daphne Ippolito, Filippo Menczer, Mike S. Schäfer & Hiromi M. Yokoyama

Nature Reviews Physics 6, 162–165 (2024) | Cite this article

4627 Accesses | 5 Citations | 15 Altmetric | Metrics

CORRESPONDENCE: SOCIOECONOMICS, HEALTH POLICY AND LAW

Letter: Performance of ChatGPT and GPT-4 on Neurosurgery Written Board Examinations

Wang, Shuo BA*, Kinoshita, Shotaro MD^{§,||}, Yokoyama, Hiromi M. PhD[‡]



LETTER TO THE EDITOR | Free Access

Letter: Shifting focus—From ChatGPT to specialised medical LLMs

This article relates to:

Shuo Wang, Shotaro Kinoshita, Hiromi M. Yokoyama

JOURNAL ARTICLE

LLMs may improve medical communication: social science perspective

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Shuo Wang, Tianyu Liu, Shotaro Kinoshita, Hiromi M Yokoyama

Postgraduate Medical Journal, qgae101, <https://doi.org/10.1093/postmj/qgae101>

Published: 11 August 2024 | Article history



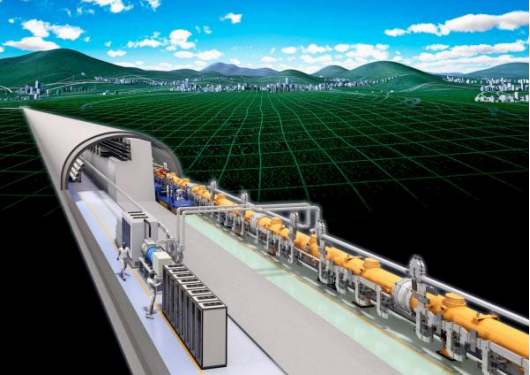
Journal of Endourology > Ahead of Print

Letter | NO ACCESS | Published Online: 18 June 2024

Beyond ChatGPT: It Is Time to Focus More on Specialized Medical LLMs

Author: Shuo Wang | AUTHORS INFO & AFFILIATIONS

Publication: Journal of Endourology • <https://doi.org/10.1089/end.2024.0374>



FOCUS

Physics

宇宙の謎に迫るILC計画, 「ヒッグス粒子」の研究に 焦点

特別寄稿 横山広美/村山 斉

- 文部科学省, 国際リニアコライダーに関する有識者会議委員
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-Working Group on Securing and Developing Human Resources member

-Working Group on Particle and Nuclear Physics member

-Working Group on Verification of System and Management member

科学雑誌 Newton 2018年2月号

月刊科学雑誌 Newton 2018年2月号

2017年12月26日発売 / 本体1,111円+税

定期購読のお申し込みはこちら

ツイート いいね! シェア



Newton Special (1)

美しい無限の数式

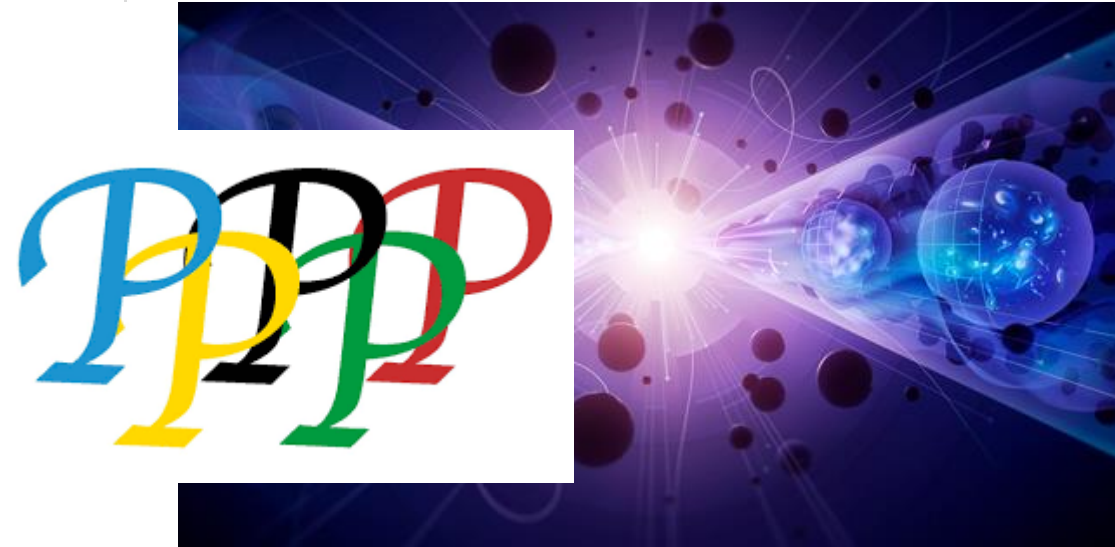
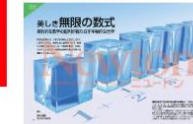
規則的な数字の配列が織り成す神秘的な世界

協力 黒川信重

執筆 三ツ村崇志 (編集部)

数学の世界には、さまざまな美しさがかくされている。その中でも、無限の足し算や、無限につづく分数など、「無限の数式」の美しさは際立っている。神秘的な無限の数式を鑑賞しよう。

【試し読み】



Sustainable big science -Green AI for AI4S

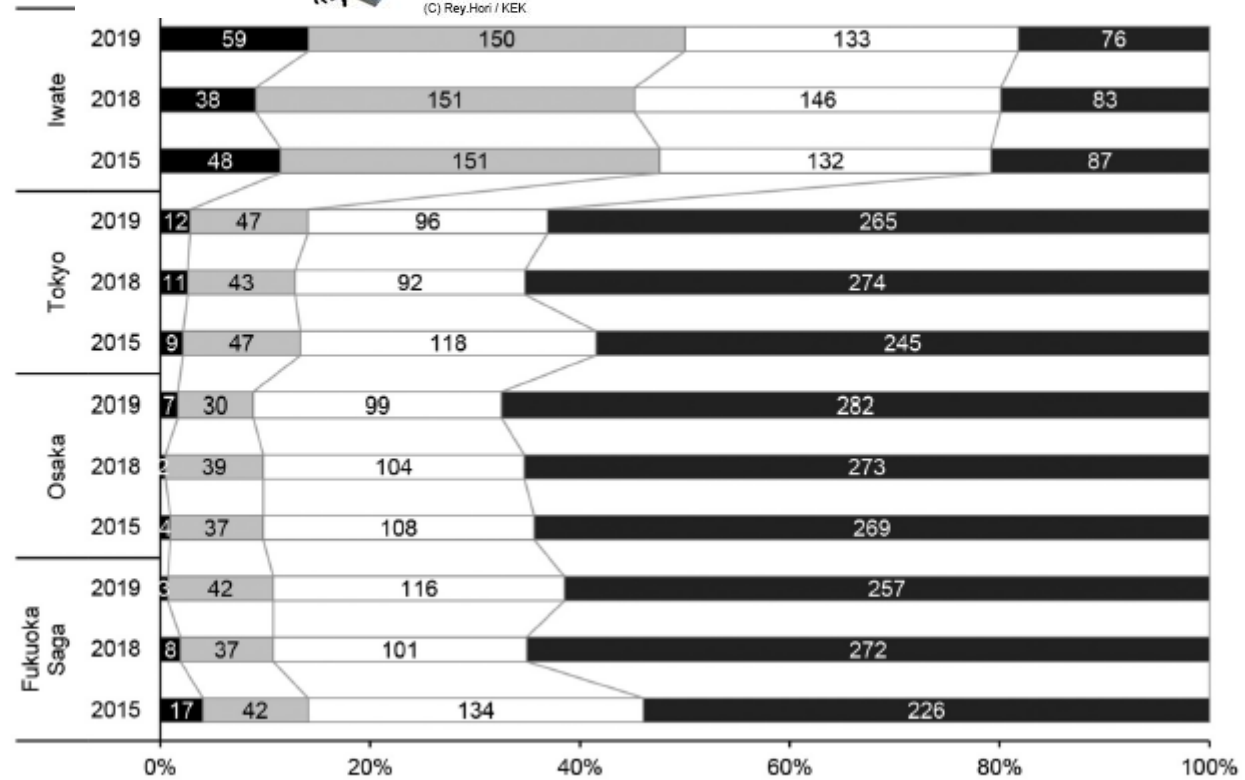
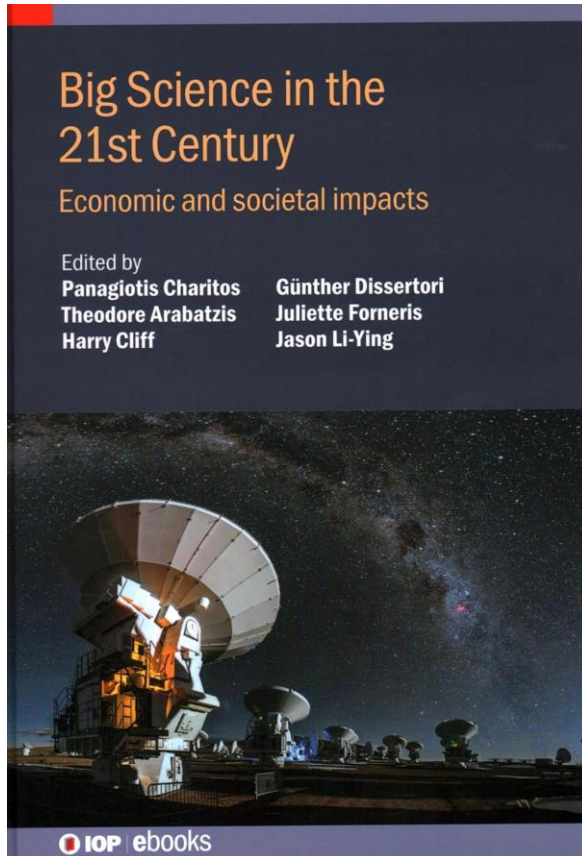
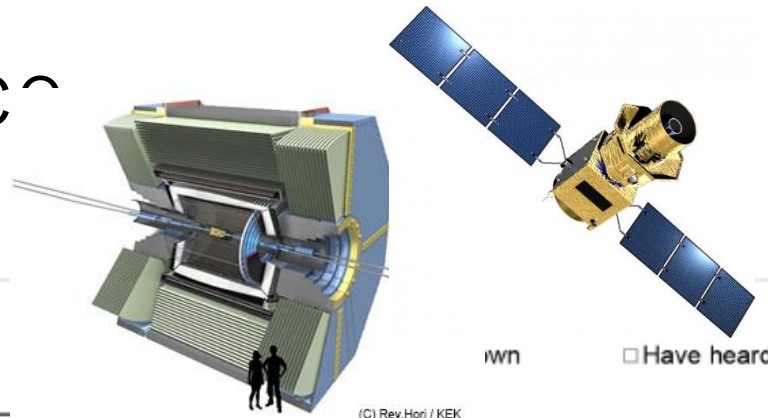


Figure 48.1 . Recognition levels in the four prefectures

Yokoyama, H. M., Akimoto, Y., & Ikkatai, Y. (2023). [Big science and society in Japan: Kamiokande series, policy systems and ILC](#). In [Big science in the 21st century: Economic and societal impacts](#) (pp. 48-1 to 48-16).

Green AI for sustainable basic science

2019-



村山齊 香取秀俊 Takao Hensch 横山広美 梶田隆章 伊藤由佳理 Mikhail Kapranov 杉山陽子 大栗博司 Michela Fagiolini 中島啓

変革を駆動する

先端物理・数学プログラム

コーディネーター 村山齊

(東京大学カブリ数物連携宇宙研究機構、バークレー)



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