



Outreach activities for KEK 50th Anniversary



KEK 50th Anniversary in 2021



- OKEK was founded in 1971
- □ 2021 was 50th anniversary year
- □ Due to the novel coronavirus pandemic, it has been very difficult to hold in-person outreach projects as we have envisioned
- We overcame this by putting some projects online

Contents



- □ I would like to report on some of the innovations and difficulties we faced in bringing our public outreach online, as well as the results of 50th anniversary symposium which was held as hybrid format
- □ I think we did our best, although it was not a great success as a whole...
- □ I'd like to hear your comments and experiences what we should have done.

Brief history of KEK



- □ KEK is based on the Institute for Nuclear Study (INS), which was an affiliated research institute of the University of Tokyo
- □ Established in 1971 as the first "Inter-University Research Institute"
- □ For half a century, we have worked together with university researchers to develop a wide range of sciences, from particle physics to material structure science, using accelerators



«Side Story» Origin of the name "KEK" 50



- Some of you might have wondered why it is called "KEK"
- □ In 1971
 - [English] National Laboratory for High Energy Physics
 - 【Kanji】高エネルギー物理学研究所
 - [Romaji] Kou Enerugi Butsurigaku Kenkyu-sho
- □ Since 2004 (according to changes in laws and systems)
 - [English] High Energy Accelerator Research Organization
 - 【Kanji】高エネルギー加速器研究機構
 - [Romaji] Kou Enerugi Kasokuki Kenkyu Kikou

5 Milestone Researches in Web Manga Do



- □ Kasoku Kids (カソクキッズ)
 - accelerator kids
- 5 Major Topics
 - Photon Factory
 - Cancer Studies
 - B Factory
 - Neutrino Experiment
 - Superconducting Magnet



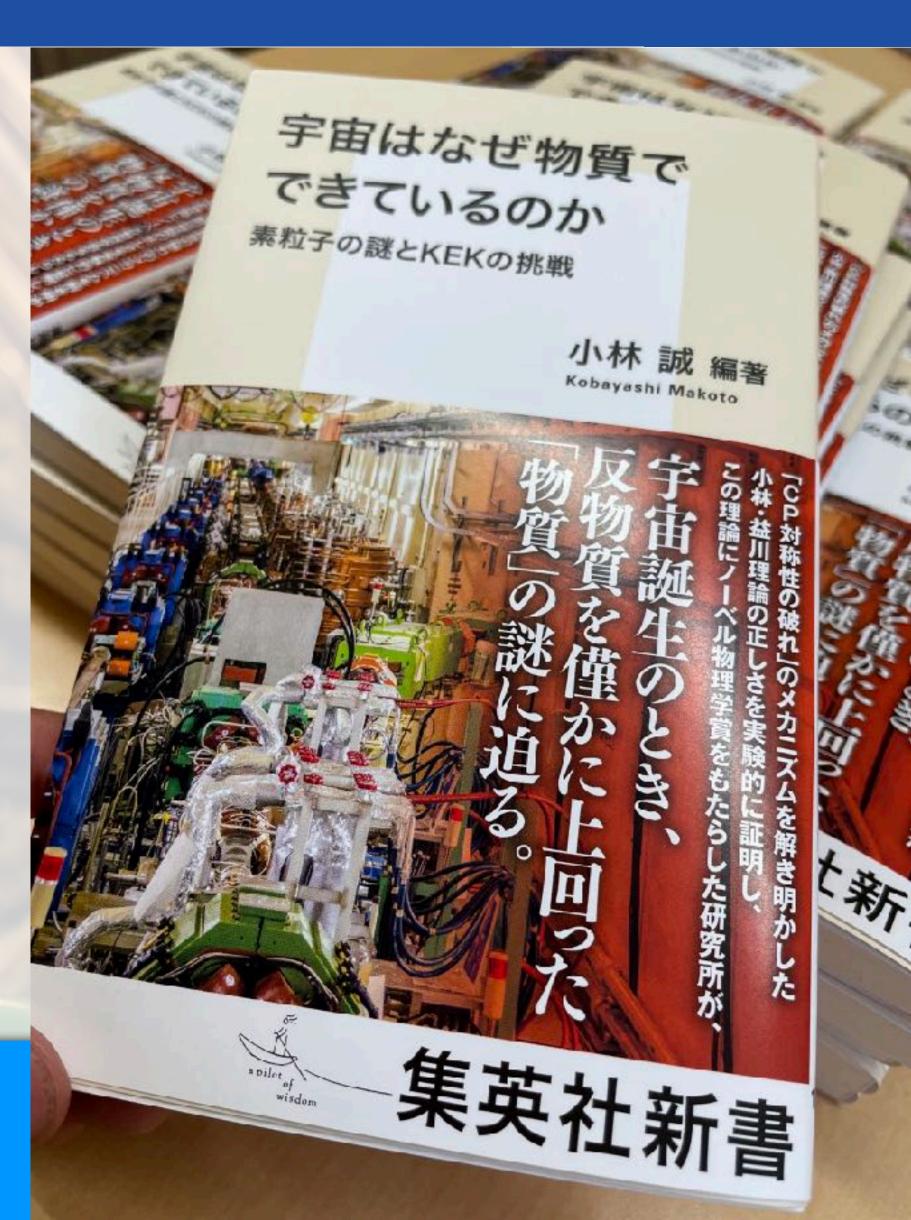
KEK50th Special Edition Available at https://www2.kek.jp/kids/comic/

Booklets printed ... but could not have a chance distribute them in-person

History of accelerator science in Japan 200



- Published from
 - ▶ 集英社新書 (SHUEISHA Inc.)
- □ Title
 - Why is the universe mede of matter? -Mysteries of particles and challenge of KEK -"
- Edited by
 - Makoto Kobayashi



Targeted to novices

Series of KEK 50th Related Events 50



- UKick-off Ceremony (Apr. 2021) Anniversary
- Public Lectures (Jun. / Jul. / Oct.) ince 1971
- Openhouse (Sep.)
- Memorial Ceremony (Nov.)
- □ Memorial Symposium (Nov.)
- □ KEK Concert (few times a year) → Cancelled
- □ Echoes of Science and Music (every Nov.) → Cancelled
- □ KEK Science Cafe (every Fri.) → Cancelled

KEK50th Kick-off Ceremony



- □ Apr. 16, 2021
- □ Kick-off ceremony
 - invited the mayor of Tsukuba
 - YouTube Live

- Tree-planting ceremony
 - Newton's apple tree
 - Mendel's grape tree



KEK50th Public Lectures



- □ 4 Lectures (in Japanese)
 - On the day: Zoom webinar
 - ▶ Later: Edited archives on YouTube
- □ Jun. 26: The world is made of particles
- □ Jul. 03: Evolution of the Universe and nuclear physics
- Oct. 09: High-tech microscope to explore the mysteries of lie
- Oct. 16:50 years of KEK accelerators



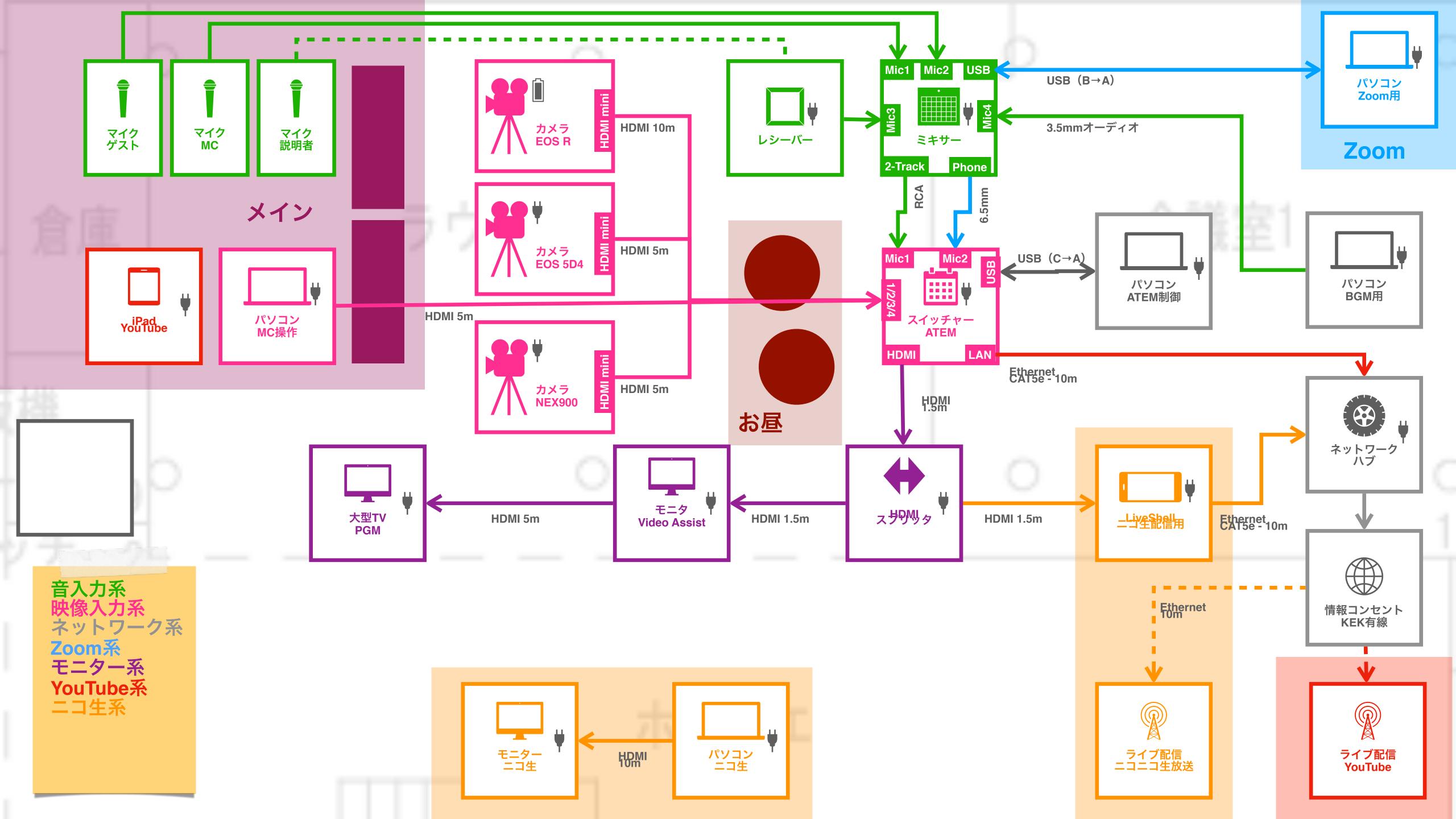
KEK50th Openhouse 2021



- □ Sep 04 & 05, 2021
 - YouTube Live
 - + niconico (二コニコ生放送)
 - ▶ Total visitors: ~33k
- cf): previous (=in-person)
 - ▶ 3000 5000 visitors / day



Reached 10x more people than usual



KEK50th Memorial Ceremony



- □ Nov. 08, 2021
 - Hitotsubashi Hall (in Tokyo)
 - Hybrid
 - in-person: 150
 - YouTube Live
- Invited relavant people
- □ Streaming was outsourced





KEK50th Memorial Symposium



- □ Nov. 09 & 10, 2021
 - Mobayashi Hall (KEK)
 - Hybrid
 - in-person: ~50/day
 - Zoom webinar: 300~400/day
- Prepared and operated streaming system all by ourselves



Past successes, present endeavors, future dreams



KEK 50TH ANNIVERSARY SYMPOSIUM

November 9-10, 2021, Tsukuba, Japan





Conclusion & Discussion



- □ KEK marked its 50 years anniversary in 2021
 - Do be honest, it was very difficult campaign
- We overcame this by putting some projects online
- ☐ Glad to have hosted memorial ceremony and symposium as a hybrid format event
- □ We did our best, but it was not a great success
 - ▶ I'd like to hear your comments and experiences on what we should have done



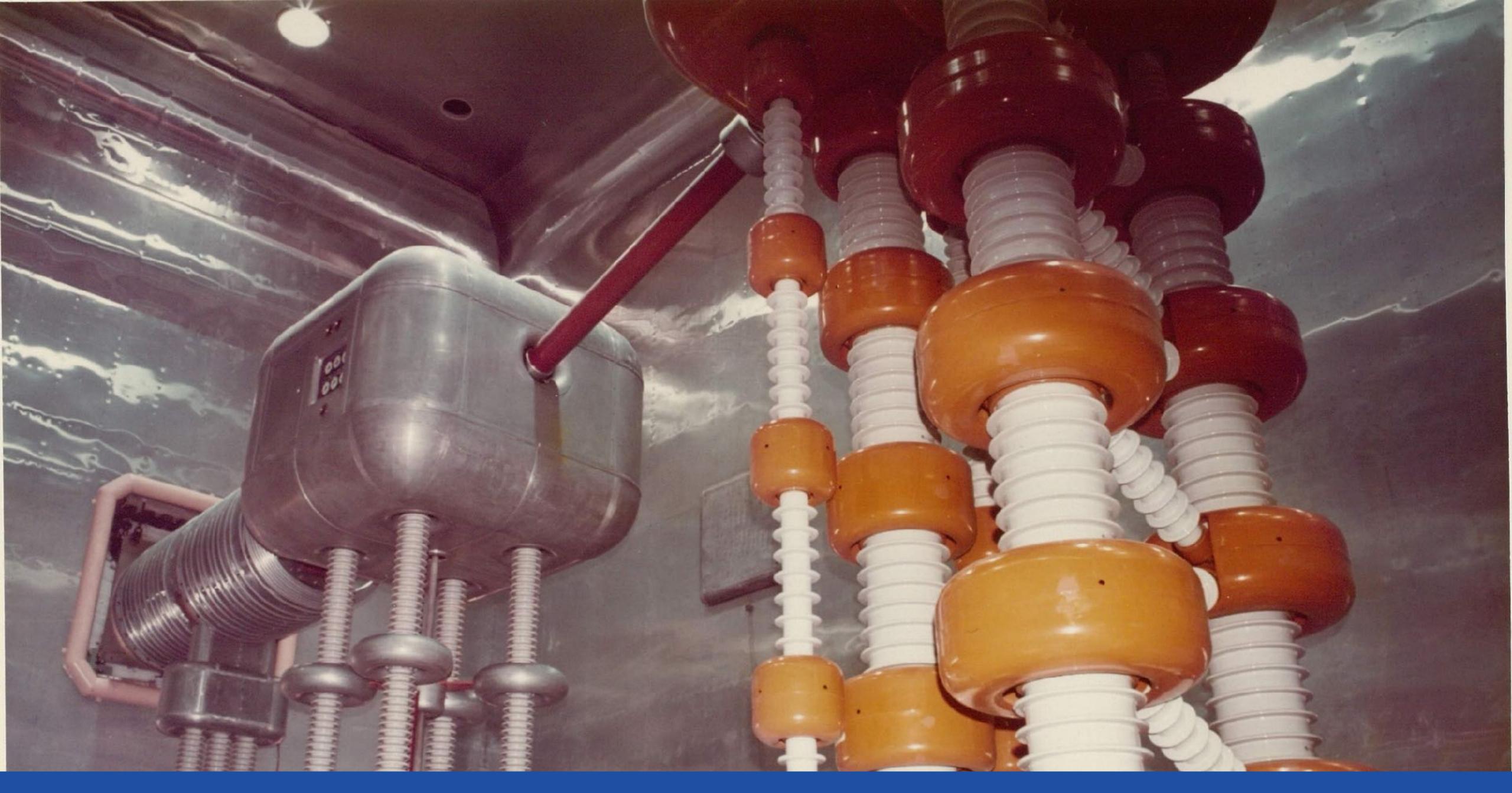


Look back KEK in photos





Site visit by committee members (1971)



750keV Cockcroft-Walton accelerator



Celebrates 8GeV proton acceleration (1975)



KEK Overview (1975)



Ceremony for the completion of proton synchrotoron (1976)



TRISTAN achieved 50GeV collision (1986)

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