# SATIF-16 May 28-31, 2024

Shielding aspects of Accelerators, Targets and Irradiation Facilities

... 30 Years of SATIF

A. T. H. Dredl Market

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Scientific Programme

Call for Abstracts

#### Timetable

Overview

30 years of SATIF

My Conference

My Contributions

Book of Abstracts

## 30 years of SATIF

In the 30th anniversary, hera are some documents to know the history, the concept and the mission of SATIF

30years-HideoHirayama 30years-TanakaMessage ExecutiveSummaries-SATIF1-SATIF15

## OECD DOCUMENTS

Proceedings of the Specialists' Meeting on Shielding Aspects of Accelerators, Targets and Irradiation Facilities

### SATIF is not a Conference...

it is a Workshop where common Problems are identified with the goal to advance the field in cooperation

Arlington, Texas (USA) 28-29 April 1994

organised by the Nuclear Energy Agency

Reactor Physics Committee (Japan) Radiation Shielding Information Center (USA) Adobe Acrobat PDF Document - on 5/6/24 at 6:24 PM

## Proceedings of First Specialists' Meeting on Shielding Aspects of Accelerators, Targets, and Irradiation Facilities

Nuclear science Nuclear science Proceedings Proceedings of the First Specialists' Meeting on Shielding Aspects of Accelerators, Targets, and Irradiation Facilities (SATIF) at Arlington, USA on 28-29 April 1994. CITE THIS (1) DOWNLOAD 0 1 L Q 6 of 392 ~ V - + Automatic Zoom 1 ttra 1.5-2 GeV K Highlight All Match Case Match Diacritics Whole Words 1 of 7 matches esposito ts during the First Period of the Commissioning. 205 Gas S. Ban & H. Hirayama: Gas-Bremsstrahlung in 2.5-GeV Electron Storage Ring ..... ...219 Bremsstrahlung A. Esposito, L. Liberatori, M. Pelliccioni, A. Ferrari & P. R. Sala: work for the .227 Gas Bremsstrahlung: Monte Carlo Simulations and Experimental Verification ...... N. Sasamoto & Y. Asano: Frascati ADONE .235 Shielding Design Study for Spring-8 collider **Empirical methods** H. Dinter & K. Tesch: A Simple Estimation of the Dose Equivalent behind Shieding of High Computer codes ans data D. Filges, R. D. Neef, H. Schaal & B. Wolfertz: Procedures and Data for Shieding Calculations of Spallation Target K. Shin, K. Mivahara, E. Tanabe & Y. Uwamino: Systematics in Inclusive Neutron Production A. Fasso', A. Ferrari, J. Ranft & P. R. Sala: S. Iwai, T. Uehara, O. Sato, N. Yoshizawa, S. Furihata, S. Tanaka & Y. Sakamoto: 305 Evaluation of Effective Dose Irradiated by Energy Radiation

Hideo Hirayama

Tsukuba-san mountain 871m

9 September 2012

- 30 years attendance of SATIF workshops (1994-2024)
- 30 years long member of the Scientific Committee
- Session chairman at 16 SATIFs (including today!)
- Organizer of comparisons and benchmarks
  - Inter-comparison of the medium-energy **neutron attenuation** in iron and concrete (1997-2008)
  - Benchmark Calculation with Simple **Phantom** for Neutron **Dosimetry** (2000-2002)
  - Inter-Comparison of **Particle Production**. (2014-2024)

## - together with **Nikolai Mokhov** and others he reviewed **actions agreed** on at SATIF workshops and produced a **synthesis of the discussions and decisions** made

Specific contributions:

- A Review of Shielding Problems concerning Electron Accelerators
- An Accelerator Shielding Benchmark Analyses and Future Items to be solved
- Gas-Bremsstrahlung in 2.5-GeV Electron Storage Ring
- BEEP: The Benchmark Exercise for Electrons and Photons
- Current Status of a Low-energy Photon Transport Benchmark
  Development of DUCT-III Code for Duct Streaming Calculation
- Development of a Radiation Shielding Tool for Proton Accelerator Facilities (BULK-I)
- Standard data of dose conversion coefficients in Japan
- Radiation shielding design for the J-PARC project
- JASMIN: Japanese-American study of muon interactions and neutron detection
- Dark current and radiation of KEK-Linac accelerating structure protons

- He played a key role in developing and maintaining the **EGS** (Electron Gamma Shower) computer codes, originally started at SLAC and he assured its survival during a period of perturbations

- In more recent years:
  - Research work related to the Fukushima accident (e.g. Identification of radiation sources, Radioactive source Dosimetry, etc.)



*Hirayama-san, Congratulations and Thank you for the extraordinary contribution to SATIF !* 

(Hideo means excellent man)