



# 8th High Power Targetry Workshop

May 9-13, 2022



RIKEN, Nishina Center for Accelerator-based Science, Wako, Saitama, Japan

## 1st Announcement



Dear Colleagues,

This is the first announcement of the **8th High Power Targetry Workshop**, which will be hosted by RIKEN and J-PARC. This workshop will be held at **RIKEN Nishina Center for Accelerator-based Science, Wako, Saitama, Japan, from May 9th to May 13th, 2022**. in a hybrid style, i.e., both in-person (onsite) and remote (online) participation will be possible. Based on the current status of COVID-19, we don't know how much in-person participation will be possible. We hope that the situation will improve so that as many people as possible can participate in person. The HPT Workshop brings together scientists and engineers from the international community for particle accelerator targetry. Applications include neutrino facilities, neutron facilities, radioactive ion beam facilities, material irradiation facilities, accelerator-driven systems, and precision experiments for rare processes.

Themes for the workshop include:

### 1. R&D to support concepts

R&D: target physics, testing and material

### 2. Radiation damage in target material and related simulations

Radiation damage simulation and databases

### 3. Post-irradiation examination

PIE results, feedback to R&D and design, experimental technologies

### 4. Target design, analysis, and validation of concepts

Target design and optimization by numerical simulations

### 5. Target facility challenges

Facility radioprotection, remote handling, lifecycle challenges

### 6. Construction, fabrication, inspection, quality assurance

Integration, feedback/experience

### 7. Operation of targets and beam dumps

Operational experience, instrumentation and monitoring, maintenance

### 8. Multipurpose use of targets and beam dumps

Beam dump facilities for irradiation and particle generation

Time will be available for open discussion and we would welcome suggestions of suitable topics.

For those who are interested in establishing inter-laboratory collaborations, we may provide support to organize satellite meetings.

Those who need visa to arrive to Japan please contact us as soon as possible at [hptw2020-loc@ml.j-parc.jp](mailto:hptw2020-loc@ml.j-parc.jp).

The workshop website is now available at: <https://indico2.riken.jp/event/3102/>.

***We look forward to welcome you at Wako-city!***

### Scientific Program Committee:

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