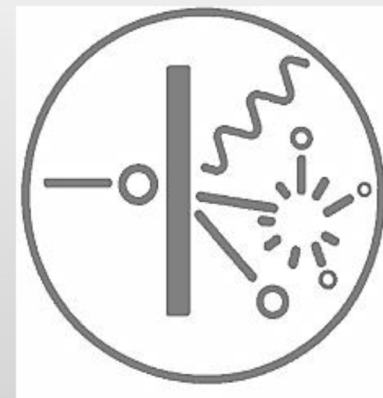




PAUL SCHERRER INSTITUT

PSI



30th Conference of the International Nuclear Target Development Society INTDS 2022

September 25-30, 2022

Paul Scherrer Institut Villigen PSI, Switzerland

Scope

Despite beam facilities, detectors and elaborated data analysis, the target is one of the indispensable components in scientific experiments aimed to investigate nuclear reactions and it plays also an important role for the performance of nuclear installations, for instance spallation neutron sources. Correspondingly high is the influence of the target quality on the quality of the final experimental result. The focus of this conference series is the research and development of techniques for the production and characterization of targets and target-related material for a broad range of applications. Performed every second year, the conference is aimed to bring together the target makers from all over the world to report about newest developments, share their knowledge, build up synergies for efficient exploration of the available resources and foster their networks to be able to produce:

Tailored Targets for Science

Topics

- Preparation techniques for thin films, e.g., vacuum evaporation/condensation, sputtering, electrochemical deposition, powder distribution, rolling etc.
- Separation and chemical processing of stable and radioactive isotopes;
- Preparation and characterization of high-purity and special materials;
- Development of highly material-conservative methods of preparation;
- Effects of contaminants;
- Target and sample encapsulation;
- Radiation and beam heating effects;
- Targets for radionuclide production;
- Liquid and Gas Targets
- Availability of isotopes;
- Target and sample thicknesses from gas densities to kg/cm².
- Isotopically enriched and radioactive targets
- Beam charge strippers (foil, liquid, gas, plasma)
- Targets for high intensity beams
- Target characterization
- Targets for special applications (medical, industrial, controlled fusion)

Important dates

01.02.2022:	Second announcement
31.05.2022:	Submission of abstracts
30.06.2022:	Notification of acceptance
15.07.2022:	End of Early registration
31.08.2022:	End of Registration
25.09.2022:	Late registration
31.12.2022:	Deadline for proceedings contributions

Website: <https://indico.psi.ch/event/7834/>

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