April 13, 2026

> First circular <

TAN 27, to be held in Switzerland in 2027 (**August 22 – 27, 2027**), is the 8th in the series of international conferences dedicated to recent achievements and developments in experimental and theoretical chemistry and physics of transactinide elements. The scientific program will cover experimental and theoretical aspects of the synthesis of superheavy elements, nuclear reactions, nuclear structure, chemistry, atomic properties, and related topics. The first TAN conference took place in 1999 in Seeheim near Darmstadt, Germany. Since then, the meetings of this series have been organized every four years, in Napa, USA (2003), in Davos, Switzerland (2007), Sochi, Russia (2011), Urabandai, Japan (2015), Wilhelmshaven, Germany (2019), and Huizhou, China (2023).

We warmly invite all our colleagues from around the world to join us in Switzerland. The location provides an excellent setting to bring together this truly international community in an open and inclusive atmosphere, facilitating broad participation and enabling discussions on future experiments and collaborations across the field. The TAN 27 is organized by the Paul Scherrer Institute (PSI), ETH Zurich, and the University of Bern.

Scope of the Conference | The scientific program will cover experimental and theoretical aspects of the synthesis of superheavy elements, nuclear reactions, nuclear structure, chemistry, atomic properties, and related topics. It will consist of invited lectures, oral presentations selected on the basis of submitted abstracts, and poster contributions.

Topics | All topics in the scope of this conference shall be discussed, and we ask for submission of contributions. In particular, we invite contributions on the heaviest elements from both experiment and theory, including the following topics:

> Theories and experiments of heaviest-element synthesis
> Nuclear reaction studies
> Nuclear structure and spectroscopy
> Atomic physics studies
> Chemical properties of transactinide elements
> Technical developments
> Large-scale facilities in the field of superheavy element research

Venue | The conference will take place in Stoos, a car-free mountain village at 1305 m (4282 ft), accessible by the world's steepest funicular. Stoos is located near the famous Lake Lucerne in the canton of Schwyz, one of the three founding cantons of Switzerland. Our conference hotel "Hotel Stoos Lodge" (see here for more information) is conveniently situated right at the summit station. The entire hotel is reserved for our conference, and participants will be able to reserve a room (single, double, or in exceptional cases triple rooms) during registration. In case we use all 100 rooms, additional rooms may be booked at the second hotel "Wellness Hotel Stoos" (see here for more information). Accompanying persons may explore the surrounding area on foot or visit nearby Lucerne as well as other cities.

Important Dates

> 2nd circular: **October 2026**
> Call for abstracts: **November 1, 2026**
> Start of registration: **November 1, 2026**
> Deadline for the submission of abstracts: **January 17, 2027**
> Notification of authors: **March 1, 2027**
> Deadline for early-bird registration: **March 14, 2027**
> Deadline for registration: **April 25, 2027**
> 3rd circular: **May 2027**
> Conference: **August 22 – 27, 2027**

Communication | The organization of the conference will be carried out via email-communication (tan27@psi.ch). All pertinent information will be made available on the website (see below). This includes circulars, registration, submission of contributions, as well as the conference program.

Local organizing committee

> Patrick Steinegger (PSI, ETH Zurich)
> Robert Eichler (PSI, University of Bern)
> Uta Fink (ETH Zurich)
> Sandha Keller (PSI)

Conference website | For all important and current information and the latest updates please visit our website: https://indico.psi.ch/e/tan27.