REGISTRATION

Registration form available at
https://www.asuit.tn.it/en/events/workshop-4d

Fee

€ 250 (+ VAT, if applicable)
Free of charge for ASUIT employees
The fee includes registration and partecipation to the event, lunch, coffee breaks and social dinner.
Registration closes on October 15, 2026, or upon reaching the maximum capacity of participants (set to 50)

Info - servizioformazione@asuit.tn.it

ABSTRACT SUBMISSION

https://www.asuit.tn.it/en/events/workshop-4d
Deadline: October 31st 2026

CME ACCREDITATION

CME credits: 10
To receive the CME certificate:

- attend 90% of the sessions (attendance tracking using a sign-in record sheet)
- complete the satisfaction survey
- pass the learning assessment

For italian participants

- OBIETTIVO DF COGEAPS: tecnico-professionale
- AREA TEMATICA: Clinico-Assistenziale - Aggiornamenti nelle discipline specialistiche di competenza
- OBIETTIVO NAZIONALE : 18. Contenuti tecnico-professionali (conoscenze e competenze) specifici di ciascuna professione, di ciascuna specializzazione e di ciascuna attività ultraspecialistica, ivi incluse le malattie rare e la medicina di genere.

SERVIZIO FORMAZIONE ASUIT - CME PROVIDER

Director - Cristina Moletta,
Staff - Paola Onorati, Tatiana Maira
Administrative Office
Acting Director - Maria Natale
Staff - Stefania Marinac, Stefania Casal

PAT Provider Code - ID 1
COURSE CODE: P-25-798/FR-001-S-00-26-01
Graphics: Servizio Formazione ASUIT

SCIENTIFIC COMMITTEE

Katarzyna Czerska, Francesco Fracchiolla, Barbara Knausl, Stefano Lorentini, Ilaria Rinaldi, Sabine Visser

LOCAL ORGANIZING COMMITTEE

Stefano Lorentini, Francesco Fracchiolla
Medical Physics Unit, Asuit, Trento, Italy

SPEAKERS

Kristjan Anderle - Cosylab, Slovenia
Guido Baroni - *Politecnico di Milano, Italy*
Giorgio Cartechini - *Maastro Clinic, The Netherlands*
Francesco Fracchiolla - *Medical Physics Unit, Asuit, Trento, Italy*
Lars Glimelius - *RaySearch Laboratories, Stockholm, Sweden*
Hellen Grimes - *University College London Hospitals NHS, UK*
Judit Boda-Heggemann - *University Medical Center and Medical Faculty of Mannheim, Germany*
Tero Hyytiäinen - *Varian Medical Systems, Siemens Healthineers Company, Belgium*
Antje Knopf - *University Hospital and University of Bern, Switzerland*
Stefano Lorentini - *Medical Physics Unit, Asuit, Trento, Italy*
Malin Kügele - *University of Rostock, Germany*
Arturs Meijers - *Center for Proton Therapy, Paul Scherrer Institute, Villigen, Switzerland*
Daniele Scartoni - *Proton Therapy Unit, Asuit, Trento, Italy*
Sabine Visser - *University Medical Center Groningen, The Netherlands*
Lamberto Widesott - *Medical Physics Unit, Asuit, Trento, Italy*

Asuit
Azienda Sanitaria Universitaria Integrata del Trentino

4D WORKSHOP FOR PARTICLE THERAPY

Trento - Italy



Archivio Asuit - ph Romano Magrone

Sala Nones
Palazzo Benvenuti
via Belenzani, 12

Sala Leonardi
Asuit Proton Therapy Centre
via Al Desert, 14

16th and 17th November 2026

Endorsed by
PROVINCIA AUTONOMA DI TRENTO

Endorsed by
ESTRO

Now in its seventeenth edition, the 4D WORKSHOP FOR PARTICLE THERAPY retains its strongly practical focus. In recent years, it has adopted a traveling format, hosted by leading proton therapy centers within the European Particle Therapy Network (EPTN), of which ASUIT is an active member for many years. The workshop is organized locally by the Medical Physics Department together with the Medical Education Service of ASUIT, in collaboration with the long-standing scientific committee overseeing the initiative. The event will focus on the most advanced techniques for treating moving targets (primarily, but not limited to, tumors in the thoracic and abdominal regions) in proton therapy, specifically covering treatment planning, monitoring, and delivery workflows. It will bring together expert medical physicists, radiation oncologists, RTTs and researchers from the European proton therapy centers. The workshop program will alternate between plenary sessions, dedicated to presenting the latest advances in 4D proton therapy treatments , and practical group work/oral presentations sessions, designed for multidisciplinary professionals to discuss future developments in the field. To ensure focused discussions and foster effective collaboration among clinicians, physicists, RTTs, and industry representatives, attendance is limited to 50 participants. Through this formula, the workshop continues to serve as a premier European platform for shaping the future of 4D treatment strategies in particle therapy, while simultaneously providing an excellent opportunity for hands-on networking.

TARGET AUDIENCE

Medical physicists, Radiation oncologists, Radiotherapy technicians, Researchers

MONDAY 16TH NOVEMBER

SalaNones,Palazzo Benvenuti,
Via Belenzani, 12 - Trento

13.00 Registration

13.30 Welcome greetings and Introduction

14.00 Current status of 4D treatments based on the recent systematic review

Sabine Visser

14.30 Management of 4DCT workflows and new insights

Helene Grimes

15.00 Clinical Experience with moving targets in Trento PTC: Esophagus, Lung, Liver, Breast

Francesco Fracchiolla, Daniele Scartoni

15.30 Surface guidance: patient positioning and monitoring

Malin Kügele

16.00 Coffee Break

16.30 Mini Orals Session

18.30 Closing remarks

Organizers

from 19.30 Social Dinner

TUESDAY 17TH NOVEMBER

Sala Leonardi, Asuit Proton Therapy Centre
via Al Desert, 14 - Trento

08.30 Registration

09.00 Estimation of the interplay in particle therapy

Antje Knopf

09.30 Beam delivery time models

Arturs Meijers, Giorgio Cartechini

10.10 The Vendors' perspective and future insights

Lars Glimelius, Kristjan Anderle, Tero Hyytiäinen,

11.00 Coffee Break

11.30 Interactive session: major challenges in treating 4D indications following the entire treatment workflow:

Table1. Treatment Preparation
Table2. Treatment Planning
Table3. Positioning and Monitoring
Table4. Treatment Delivery

Organizers

13.30 Lunch

15.00 Recap interactive group discussions

Organizers

16.00 Exotic motion session 1: Eye motion management in ocular proton therapy

Guido Baroni

16.30 Exotic motion session 2: How to manage motion in heart ablation settings

Judit Boda-Heggemann, Lamberto Widesott

17.00 Conclusion and Recap

Francesco Fracchiolla, Stefano Lorentini

17.30 Closure