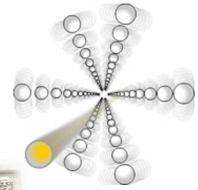




# Channeling 2026

20 - 25 September 2026  
Brindisi (Puglia), Italy



## CHARGED & NEUTRAL PARTICLES CHANNELING PHENOMENA

Chairs: S.B. DABAGOV, L. PALUMBO, F. ZIMMERMANN

NanoAc 2026 Satellite workshop Chairs: J. Resta-LÓPEZ, B. LEI, G. XIA, G. FRANCHETTI



Palazzo  
GRANAFEI  
NERVEGNA



### Topics

- **coherent scattering of relativistic charged particles in strong fields;**
- **crystal channeling, volume capture and volume reflection of hadron and lepton beams;**
- **energetic ion interactions processes** (*backscattering and channeling of low energy ions, high energy ion channeling*);
  - **electromagnetic radiation by relativistic charged particles in periodic structures** (*coherent bremsstrahlung, channeling radiation, transition radiation, diffraction radiation, parametric x-ray radiation, LPM effect, FEL, Compton scattering*);
  - **channeling of radiations in capillary systems** (*micro- and nano-channeling, micro-channel plates, nanotubes, nano-porous*);
  - **novel techniques for beams handling and acceleration** (*plasma wake-fields, cross-laser fields, crystal assisted collimation, plasma-ion channels, capillary channeling*);
    - **advanced x-ray & neutron optics** (*capillary/polycapillary optics, compound refractive optics, micro- and nano-focusing, waveguides*);
    - **applications based on channeling phenomena** (*beams shaping, positron sources, powerful radiation sources, diagnostic tools, novel x-ray table-top instruments, channeling for advanced electronic materials studies, etc.*)

### Advisory Board

X. Artru, R. Assmann, H. Backe, S. Bertolucci, S. Boogert, A. Bracco, G. Cavoto, R. Carrigan, H. Deng, I. Endo, E. Gschwendtner, V. Guidi, F. Ferroni, N. Kalashnikov, F. Komarov, W. Lu, A. Mkrtchyan, K. Oide, A. Pathak, A. Potylitsyn, W. Scandale, M. Strikhanov, T. Tajima, U. Uggerhoj, J. Urakawa, J. Wei, C. Welsch, U. Wienands, M. Zepf

### Programme Committee

L. Bandiera, A. Bonatto, P. Cirrone, I. Chaikovska, R. Chehab, A. Curcio, S. Gilardoni, D. Giulietti, V. Kocharyan, T. Lefevre, G. Mazzitelli, S. Redaelli, B. Shen, A. Solovoyov, A. Tishchenko, L. Torrisi, K. Tsuji, T. Yu

### Organizing Committee

Yu. Cherepennikov, L. Giuliano, D. Hampai, G. Delle Monache, A. Marcelli, L. Marchitto, L. Porcelli

### Conference Secretaries

Francesca Casarin +39 06 9403 2633  
Laura Natoli +39 06 9403 2716



<http://www.lnf.infn.it/conference/channeling/2026>  
E-mail: [channeling2026@lists.lnf.infn.it](mailto:channeling2026@lists.lnf.infn.it)

