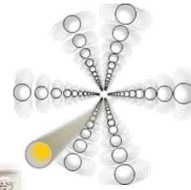




Channeling 2026

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.*)

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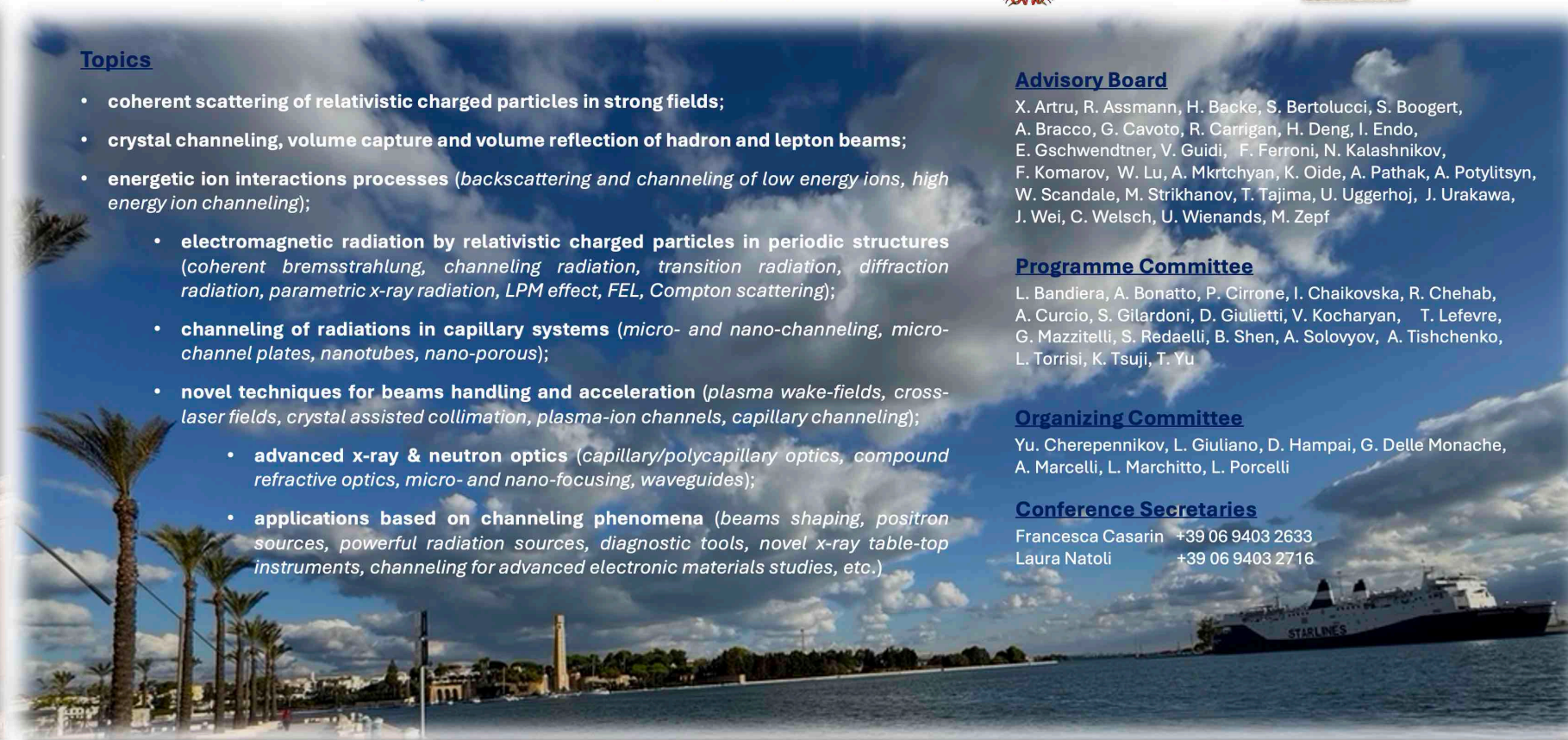
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Conference Secretaries

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



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E-mail: channeling2026@lists.lnf.infn.it

