



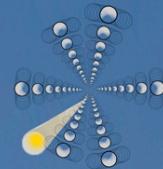
5th International Conference



Charged & Neutral Particles Channeling Phenomena

September 23-28, 2012 Alghero, Italy
Hotel Calabona

Channeling 2012



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Conference topics

- Coherent phenomena of relativistic charged particles scattering in matter;
- Radiation of relativistic particles in periodic structures (coherent bremsstrahlung, channeling radiation, resonant transition radiation, diffraction radiation, parametric x-ray radiation, LPM effect);
- Crystal channeling, volume capture and reflection for relativistic hadrons and leptons;
- Channeling of radiations in capillary systems (micro- and nano-channeling, nanotubes, nanoporous solids);
- Novel types of sources for electromagnetic radiation (FEL, Thomson scattering, laser plasma acceleration; x-ray optics);
- Advances in x-ray and neutron optics (capillary/polycapillary optics, compound refractive optics, micro- and nanofocusing, waveguides)
- Applications of channeling phenomena (beams deflection, positron sources, powerful radiation sources, novel x-ray table-top instruments)