



International Conference on Charged and Neutral Particles Channeling Phenomena

INFN - Laboratori Nazionali di Frascati
July 3-7, 2006 Frascati (Rome), Italy

Topics

- Coherent scattering of relativistic charged particles in matter;
- Radiation of relativistic charged particles in periodic structures (coherent bremsstrahlung, channeling radiation, resonant transition radiation, diffraction radiation, parametric X-ray radiation, LPM effect);
- Crystal channeling, volume capture and crystal reflection of positive ions: theory and experiments; crystal assisted collimation in hadron colliders: proposals and experimental observations;
- Channeling of radiations in capillary systems (micro- and nano-channeling, nanotubes, nanoporous);
- Novel types of sources for electromagnetic radiation (FEL, Thomson & Compton scattering, laser plasma acceleration);
- Applications of channeling phenomena (bending of the beams, positron sources, ion channeling applications, powerful radiation sources, X-ray waveguides, capillary/polycapillary optics, novel X-ray table-top instruments).

International Advisory Committee

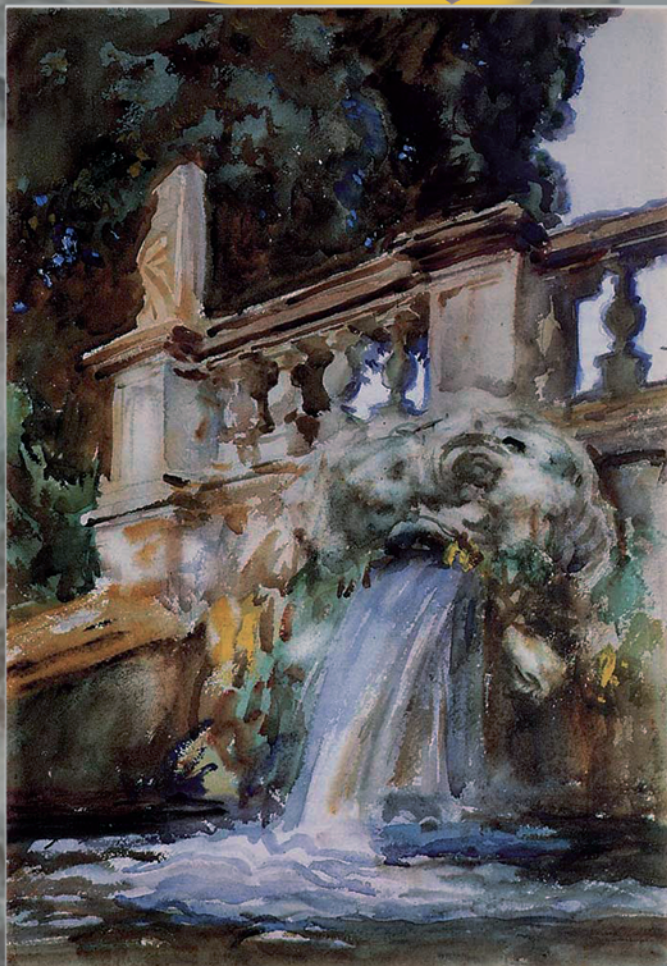
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Villa Torlonia, Frascati (1910) John Singer Sargent