

## Second International Accelerator School for Linear Colliders



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### Lecture 3 –Damping ring I

*Wednesday, 3 October 2007 09:00 (3 hours)*

- Role of damping rings<br>
- High-level overview of structure, and principles of operation<br>
- Review of basic linear beam dynamics<br>
- Damping ring lattice<br>
- Radiation damping (derivation of damping times, and the need for a damping wiggler in LC damping rings)<br>
- Quantum excitation and equilibrium beam

**Presenter:** WOLSKI, Andrzej (Cockcroft Institute and University of Liverpool)

**Session Classification:** Morning Session