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## Lecture 3a –Damping ring I

*Tuesday, 21 October 2008 09:00 (3 hours)*

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

**Presenter:** Dr PALMER, Mark (Cornell University LEPP)

**Session Classification:** Damping ring I