

WG-2 Charge – Beam Dynamics

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The number of existing and future ERL based accelerator projects are steadily increasing in North America, Europe, and Asia. Working Group 2 (WG2) will survey the optics designs of nearly all of these machines, and will include operational experiences at existing machines. WG2 will also address the critical issues of injector optimization, error tolerances, halo formation and collimation, start to end simulation, beam instabilities, and collective effects in order to realize the excellent performance qualities of ERLs, such as ultra-low emittance, high current, high stability, and high reliability.