

Far-Field Acceleration Scheme, A.V. SMIRNOV,
RRC KI - A possibility of far-field acceleration is considered. The scheme is based on a resonance interaction of a straightforward e-beam with electromagnetic waves propagating in a oversized waveguide with a periodically curved axis. Both laser and mm-wave sources can be used. Main parameters of acceleration process are estimated. The method proposed is capable to provide acceleration rate exceeding that for Inverse Free Electron Laser (IFEL).