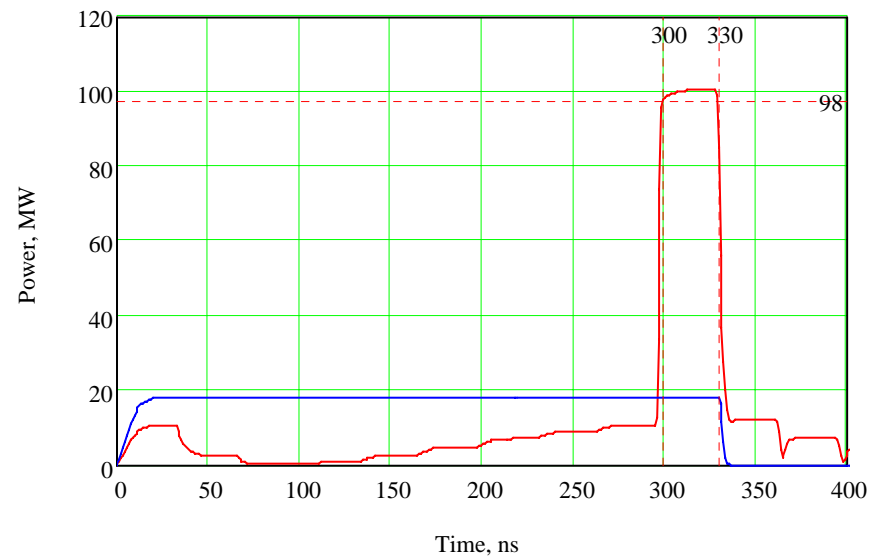
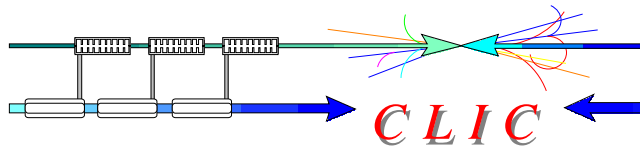
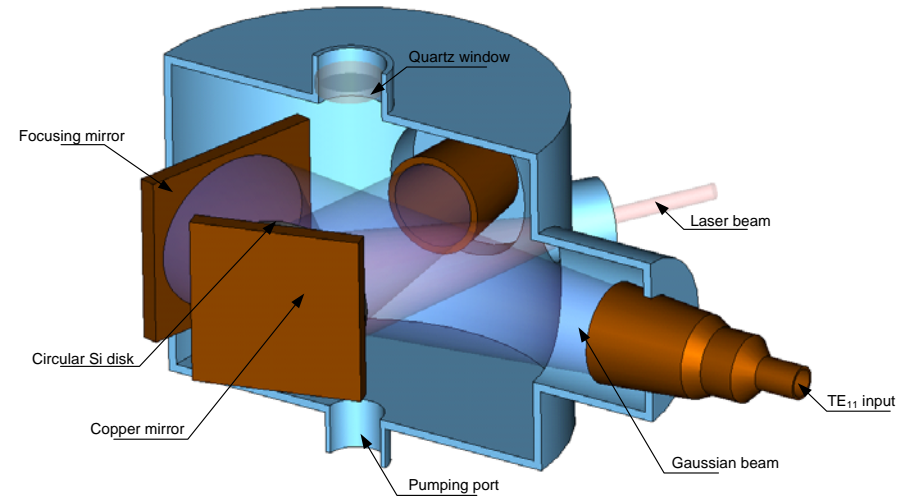
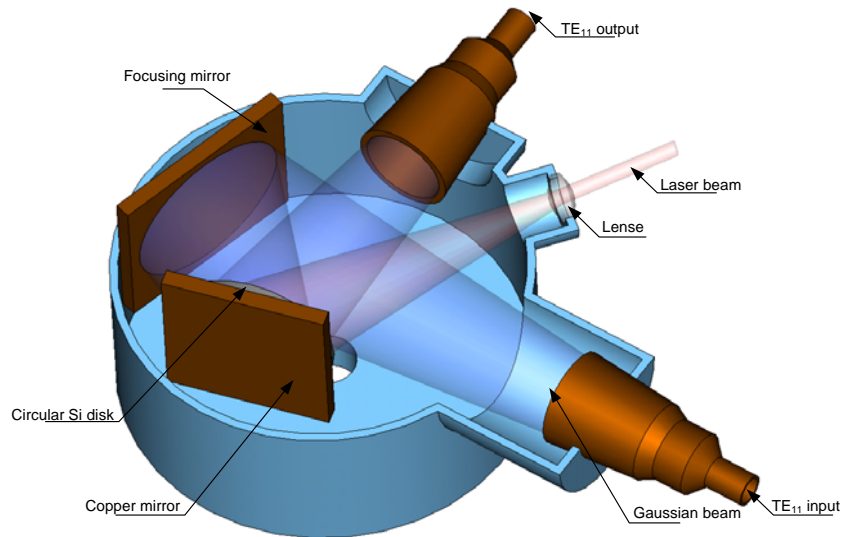


33 ns pulse compressor (4.5 m long delay lines), produces 100 MW for the input pulse 18 MW, 330 ns with a fast phase switching.





Active phase switch, GYCOM proposal



1. High-power tests of Si-disk should be carried out in CERN with a simplified version (single mirror, no laser).
2. Several versions of phase shifters were analyzed and calculated (TE_{01} miter bend, TE_{01} double cross phase shifter, SLED-like TE_{01} phase shifter, TE_{11} miter bends).
3. Suppliers of lasers have been found. Experimentally observed switching time during lower RF power tests was < 5 ns with reflection $>95\%$ in active state and duration ~ 200 ns
4. Methods of Silicon doping to reduce dielectric losses and low-loss measurements were developed
5. Now we are pleased to propose a final TE_{11} phase shifter scheme with expected efficiency 98%