

# Patterns of radiation produced by an accelerating point charge

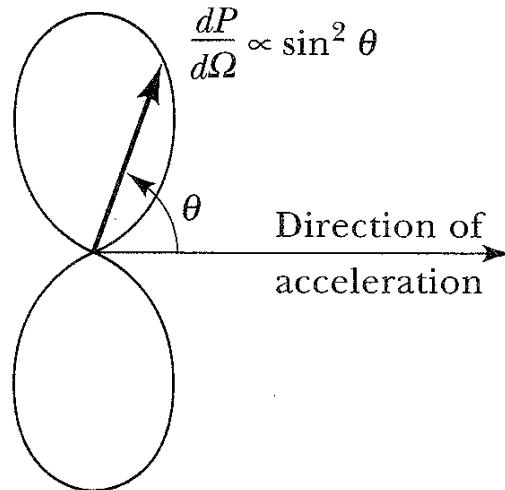


Figure 1: Angular dependence of (Larmor) radiation from a slowly moving accelerating charge  $\beta \ll 1$  [1].

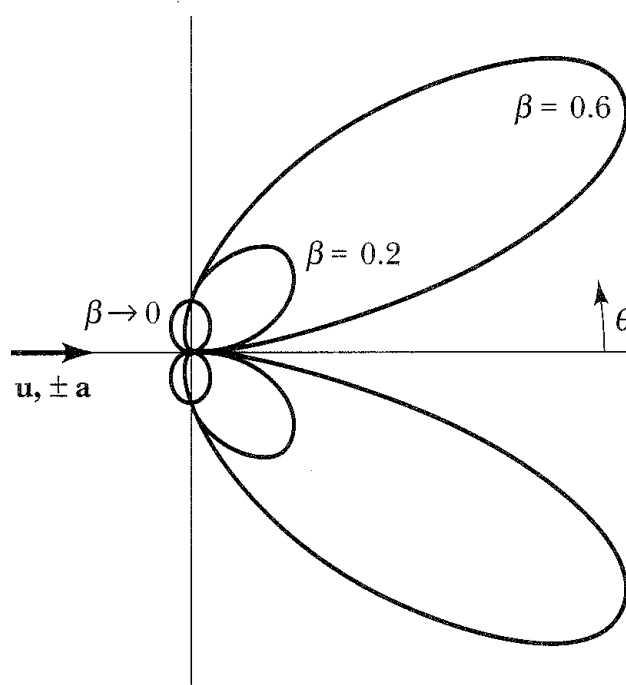


Figure 2: Angular dependence of bremsstrahlung radiation — acceleration is parallel to direction of motion [1].

## References

- [1] ‘*Classical Electromagnetic Radiation (3rd edition)*’, M.A.Heald and J.B.Marion, Saunders College Publishing.

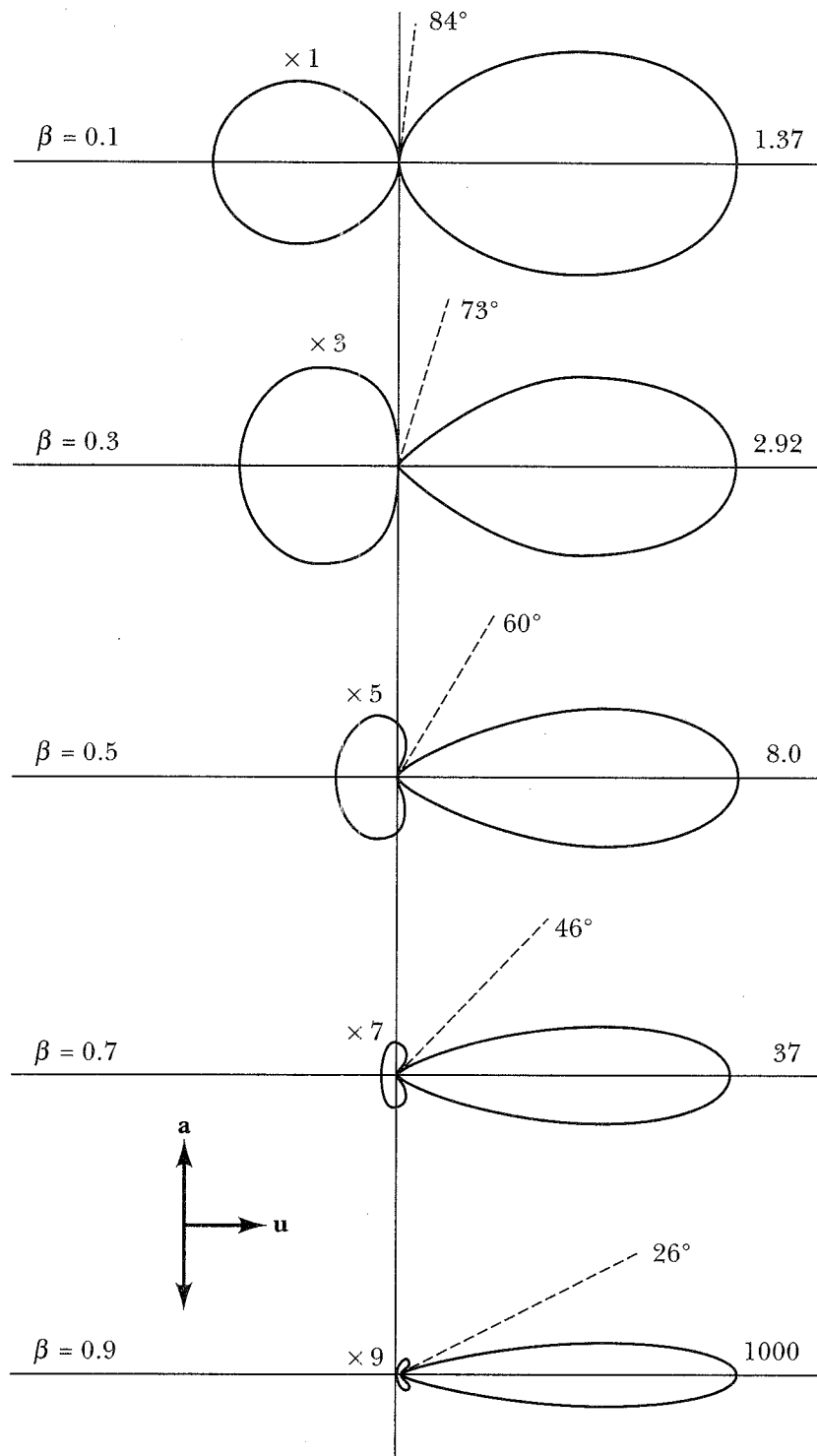


Figure 3: Angular dependence of synchrotron radiation in the plane of the orbit — the acceleration (which is vertical) is perpendicular to the direction of motion (which is to the right) [1].