



The Thursday Thing

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Radiation Reaction

The talk's aim is to answer the following question: how do charged particles respond to their emission of electromagnetic radiation? The usual formulation of the Lorentz force law does not account for the important effect of radiation reaction, which is the response of the particle to its own loss of energy to radiation. To account for this, it is necessary to include in the equations of motion the force that the particle exerts on itself. I will show how this is done.

Date: Thursday, May 3, 2001

Place: MacNaughton 222

Time: 12:30 p.m.

Cookies will be served. Don't forget your lunch.